

**NIDDK**  
**Nonalcoholic Steatohepatitis Clinical Research**  
**Network (NASH CRN)**  
**Global Data Dictionary**

**NASH CRN Study Databases as of 30 July 2017**

- NAFLD Database (Adults and Pediatric)
- PIVENS RCT (Adult)
- TONIC trial (Pediatric)
- NAFLD Adult and Pediatric Database 2
- FLINT RCT (Adult)
- CyNCh RCT (Pediatric)

**Key to Global Dictionary Data Items:**

By design, Case Report Form Item numbers and names and the SAS variable names and labels are in one-to-one correspondence.

All Case Report form item numbers are linked directly to SAS variable names and variable labels. If you have the case report form revision number and the form item name, you have the SAS database variable name, and vice versa.

For example, the Registration Form (**RG**), Revision **1**, Item Number (**12**), "**Ethnic Category**" for the NAFLD Database study has the corresponding SAS variable name: **rg112** with SAS variable label: "**Ethnic Category**." Symbolically, if **ff** = 2-digit form abbreviation, **r** = 1-digit form revision number, and **iii** is the item number, the SAS variable name is **ffriii**.

More Examples:

- Baseline History case report form (**BG**), Revision **2**, Item (**20v**), "**Edema**," for the FLINT trial, has corresponding SAS variable name **bg220v** and SAS variable label "**Edema**."
- Central Histology Review (**CR**) form, Revision **3**, item (**15a**), "**Liver cell injury: Ballooning**" for the NAFLD Database 2 study has SAS variable name **cr315a** and SAS variable label "**Ballooning**."

*Prepared by the NASH CRN DCC*

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## Form Abbreviations and Case Report Form Names

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Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
AE	Adverse Event Report
AN	Serious Adverse Event Report
BC	Blood Collection for DNA
BD	Food Questionnaire Documentation
BG	Baseline History
BH	Baseline History
BP	Blood Processing for Plasma and Serum
BQ	Beverage Questionnaire (BEVQ-15)
CF	Continuation Form
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
CV	Cardiovascular Risk Factors
DD	DEXA Scan for Bone Mineral Density
DR	Death Report
DX	DEXA Scan for Body Fat
EC	Eligibility Checklist
ED	Database Enrollment
EN	Database 2 Enrollment
FI	Family Member Identification
FH	Follow-up Medical History
FR	FibroScan® Report
HC	Hepatocellular Carcinoma Report
HE	Histology Findings for Most Recent Liver Biopsy Done Prior to Database Registration
HF	Liver Biopsy Histology Findings
HG	Histology Findings for Next Most Recent Liver Biopsy Done Prior to Database Registration
HI	Follow-up Medical History
HS	Steatohepatitis Determination – 1 <sup>st</sup> Reading
HT	Steatohepatitis Determination –2 <sup>nd</sup> Reading
IE	Interim Event Report

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IR	Liver Imaging Studies Report
LD	Lifetime Drinking History (Skinner)
LP	Symptoms of Liver Disease (Children)
LQ	Symptoms of Liver Disease
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
LU	Laboratory Results - Tests Required at Visit s2
MA	Modifiable Activity Questionnaire
MR	MRI Report
MV	Missed or Incomplete Visit
ND	Nutrition Data Documentation
PA	Physical Activity
PE	Physical Examination
PF	Focused Physical Examination
PQ	Pediatric QOL: Parent Report for Teens (Age 13-17)
PR	Pediatric QOL: Parent Report for Children (Age 8-12)
PS	Pediatric QOL: Parent Report for Young Children (Age 5-7)
PT	Pediatric QOL: Parent Report for Toddlers (Age 2-4)
PV	Pediatric QOL: Young Child Report (Age 5-7)
PW	Pediatric QOL: Child Report (Age 8-12)
PY	Pediatric QOL: Teen Report (Age 13-17)
QF	MOS 36-Item Short-Form Health Survey
RC	Rescreen Form
RD	Study Drug Dispensing and Return
RG	Registration
RZ	Randomization Checks
SD	Liver Biopsy Materials Documentation
SE	Most Recent Prior Liver Biopsy Materials Documentation
SF	Next Most Recent Prior Liver Biopsy Materials Documentation
SR	Serious Adverse Event/IND Safety Report
TN	Transfer Notification

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# **NASH CRN Study Outcomes**

## **Case-Report Forms**

**(For collection of outcome data)**

### Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.

**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.

**By whom:** Data Coordinating Center staff.

**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c  r  3   6. Form and revision
- \_\_\_ 7. Study: **6**=Database 2
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- \_\_\_ \_\_\_ 9. Sequence number for
  - ... a. H & E stained slide
  - \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
  - \_\_\_ \_\_\_ ... c. Iron stained slide

**C. Adequacy of biopsy**

- \_\_\_ \_\_\_ 10. Biopsy length (mm)
- \_\_\_ 11. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_\_\_ 12. Followup with clinic (*Specify*):

## D. Histology

\_\_\_\_\_ Patient ID

### H & E stain

13. Steatosis (assume macro, e.g., large and small droplet)

\_\_\_\_\_ . . . a. Grade: **0**<5%; **1**=5-33%; **2**=34-66%; **3**>66%

\_\_\_\_\_ . . . b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar

\_\_\_\_\_ . . . c. Type of macrovesicular steatosis: **0**=Predominantly large droplet; **1**=Mixed large and small droplet;  
**2**=Predominantly small droplet

\_\_\_\_\_ . . . d. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

14. Inflammation

\_\_\_\_\_ . . . a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0**=0; **1**<2 under 20x mag; **2**=2-4 under 20 mag; **3**>4 under 20 mag

\_\_\_\_\_ . . . d. Amount of portal, chronic inflammation: **0**=None; **1**=Mild; **2**=More than mild

15. Liver cell injury

\_\_\_\_\_ . . . a. Ballooning: **0**=None → **GOTO Item 15d**; **1**=Few; **2**=Many

\_\_\_\_\_ . . . b. Severe ballooning present: **0**=No; **1**=Yes

\_\_\_\_\_ . . . c. Classical balloon cells present: **0**=No; **1**=Yes

\_\_\_\_\_ . . . d. Acidophil bodies: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ . . . f. Megamitochondria: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ 16. Mallory-Denk bodies: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ 18. Glycogenosis of hepatocytes: **0**=Not present; **1**=Focal, involving less than 50% of the hepatocytes; **2**=Diffuse, involving greater than or equal to 50% of the hepatocytes

### 19. Masson's trichrome stain

\_\_\_\_\_ . . . a. Fibrosis stage: **0**=None → **GOTO Item 20**; **1a**=Mild, zone 3 perisinusoidal (*requires trichrome*);  
**1b**=Moderate, zone 3, perisinusoidal (*does not require trichrome*); **1c**=Portal/periportal only;  
**2**=Zone 3 and periportal, any combination; **3**=Bridging; **4**=Cirrhosis

\_\_\_\_\_ . . . b. Perisinusoidal fibrosis grade: **0**=No perisinusoidal fibrosis present; **1**=Perisinusoidal fibrosis present that requires a Masson stain to identify; **2**=Perisinusoidal fibrosis present that is visible on the H&E stain

\_\_\_\_\_ . . . c. Predominant location of fibrosis: **0**=More predominance around or between portal areas; **1**=No portal or central predominance; **2**=More predominance around/between central veins

### 20. Iron stain

\_\_\_\_\_ . . . a. Hepatocellular iron grade: **0**=Absent or barely discernible, 40x → **GOTO item 20c**;  
**1**=Barely discernible granules, 20x; **2**=Discrete granules resolved, 10x; **3**=Discrete granules resolved, 4x;  
**4**=Masses visible by naked eye

\_\_\_\_\_ . . . b. Hepatocellular iron distribution: **0**=Periportal; **1**=Periportal and midzonal; **2**=Panacinar; **3**=Zone 3 or azonal

\_\_\_\_\_ . . . c. Nonhepatocellular iron grade: **0**=None → **GOTO item 21**; **1**=Mild; **2**=More than mild

\_\_\_\_\_ . . . d. Nonhepatocellular iron distribution: **0**=Large vessel endothelium only; **1**=Portal/fibrosis bands only, but more than just in large vessel endothelium; **2**=Intraparenchymal only; **3**=Both portal and intraparenchymal

\_\_\_\_\_ 21. Is this steatohepatitis? **99**=Not NAFLD; **0**=NAFLD, not NASH; **1a**=Suspicious/borderline/indeterminate: Zone 3 pattern; **1b**=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; **2**=Yes, definite

25. Other comments: \_\_\_\_\_



**12. Underlying cause of death** (*Study Physician: use whatever knowledge you have to best characterize the primary cause of death*); **(CHECK ONLY ONE):**

- Coronary heart disease ( 01)  
 13.
  - Cardiovascular disease ( 02)  
 14.
  - Liver disease ( 03)  
 15.
  - Malignancy (cancer) ( 04)  
 16.
  - Gastrointestinal (GI) disease ( 05)  
 17.
  - Pulmonary (lung) disease ( 06)  
 18.
  - Pneumonia ( 07)  
 19.
  - Complication of diabetes ( 08)  
 19.
  - Accident ( 09)  
 19.
  - Suicide ( 10)  
 19.
  - Homicide ( 11)  
 19.
  - Kidney disease or renal failure ( 12)  
 19.
  - Sepsis, staph or other infection ( 13)  
 19.
  - Multi-organ failure ( 14)  
 19.
  - Other (*specify*): ( 15)  
 19.
- 
- Unknown ( 16)  
 19.



**13. CAUSE OF DEATH: Coronary heart disease (CHD) subclassification (*check only one*):**

Definite fatal myocardial infarction (MI) or heart attack ( 1)

- Defined as:*
1. Death within 28 days of hospital admission, **OR**
  2. Postmortem findings consistent with MI within 28 days of hospital admission, **OR**
  3. Documented definite or probable MI in previous 28 days if death occurred out of hospital and no evidence of a noncoronary cause of death, **OR**
  4. Autopsy evidence of recent coronary occlusion or MI < 28 days old.

Probable fatal MI ( 2)

- Defined as:*
1. Death within 28 days of hospital admission in cases defined in probable MI cases, **OR**
  2. Death within 6 hours of hospital admission with cardiac symptoms and/or signs. Other confirmatory data (biomarkers, ECG) are absent or not diagnostic).

Definite fatal CHD ( 3)

- Defined as:*
1. A history of CHD and/or documented cardiac pain within 72 hours before death and no evidence of a noncoronary cause of death, **OR**
  2. Autopsy evidence of chronic CHD, including coronary atherosclerosis and myocardial scarring.

**Go to 19.**

**14. CAUSE OF DEATH: Cardiovascular (CVD) disease subclassification (*check only one*):**

Congestive heart failure (CHF) ( 1)

*Defined as: Death due to clinical, radiologic or postmortem evidence of CHF without clinical or postmortem evidence of an acute ischemic event (cardiogenic shock included).*

Documented arrhythmia ( 2)

*Defined as: Death due to brady- or tachy- arrhythmias not associated with an acute ischemic event.*

Cerebrovascular (stroke) ( 3)

*Defined as: Death due to stroke occurring within 7 days of signs and symptoms of stroke or during admission for stroke.*

Other cardiovascular ( 4)

*Defined as: Death due to other known vascular diseases including abdominal aortic aneurysm rupture.*

Specify: \_\_\_\_\_

**Go to 19.**

**15. CAUSE OF DEATH: Liver disease**  
subclassification (**check only one**):

- Nonalcoholic fatty liver disease  
(NAFLD) ( 1 )
- Chronic hepatitis C ( 2 )
- Acute liver failure ( 3 )
- Other (*specify*): ( 4 )
- 

19. \_\_\_\_\_

**16. CAUSE OF DEATH: Malignancy**  
(cancer) subclassification (**check only one**):

- Breast cancer ( 01 )
- Colon cancer ( 02 )
- Endometrial/Uterine cancer ( 03 )
- Esophageal cancer ( 04 )
- Hepatocellular carcinoma (HCC)\*  
\* *Complete and key the HC form.* ( 05 )
- Ovarian cancer ( 06 )
- Pancreatic cancer ( 07 )
- Prostate cancer ( 08 )
- Rectal cancer ( 09 )
- Other known cancer or malignant tumor  
(*specify*): ( 10 )
- 

Unknown cancer site ( 11 )

19. \_\_\_\_\_

**17. CAUSE OF DEATH: Gastrointestinal**  
subclassification (**check only one**):

- Diverticular disease ( 1 )
- Clostridium difficile* colitis ( 2 )
- Intestinal obstruction ( 3 )
- Ulcer (*gastric, duodenal, peptic, gastrojejunal*) ( 4 )
- Vascular disorders of the intestine ( 5 )
- Other (*specify*): ( 6 )
- 

19. \_\_\_\_\_

**18. CAUSE OF DEATH: Pulmonary (lung)**  
subclassification (**check only one**):

- Asthma ( 1 )
- Acute respiratory failure ( 2 )
- Interstitial lung disease (ILD) ( 3 )
- Other (*specify*): ( 4 )
- 

**19. Contributing causes of death**  
(**check all that apply**):a. Coronary heart disease (CHD) (*specify*): ( 1 )

b. Cerebrovascular disease (stroke): ( 1 )

c. Congestive heart failure (CHF): ( 1 )

d. Documented arrhythmia, not  
associated with MI: ( 1 )e. Other cardiovascular disease (*specify*): ( 1 )

f. Diabetes Type 1: ( 1 )

g. Diabetes Type 2: ( 1 )

h. Liver disease (*specify*): ( 1 )i. Hepatocellular (liver) carcinoma  
(HCC)\*:  
\* *Complete and key the HC form.* ( 1 )j. Other malignancy (cancer) (*specify*): ( 1 )k. Gastrointestinal (GI) disease (*specify*): ( 1 )l. Pulmonary (lung) disease (*specify*): ( 1 )

m. Pneumonia: ( 1 )

n. Kidney disease: ( 1 )

o. Sepsis, staph or other infection: ( 1 )

p. Other (*specify*): ( 1 )

q. Unknown: ( 1 )

r. None: ( 1 )



**Narrative - do not key:**

[Empty box for narrative text]



**C. FibroScan® Procedure information**

10. Was FibroScan® exam performed:  
 Yes ( 1 ) No ( \* 2 )  
 12.

\* Complete item 11, then skip to item 21.

11. Reason FibroScan® exam not performed (check all that apply):  
 a. Patient had a skin-to-capsule distance measurement greater than 3.5cm: ( 1 )  
 b. Other (specify): ( 1 )  
 \_\_\_\_\_  
 Skip to item 21.

12. Probe type used:  
 M: ( 1 )  
 XL: ( 2 )

**D. FibroScan® exam #1 results**

13. FibroScan® Technician PIN: \_\_\_\_\_

14. Number of measurements  
 a. Valid measurements\*: \_\_\_\_\_  
 # of valid measurements  
 b. Invalid measurements: \_\_\_\_\_  
 # of invalid measurements  
 c. Total measurements: \_\_\_\_\_  
 # of total measurements

**To calculate invalid measurements, subtract valid measurements from total measurements**

\* Note: at least ten valid measurements should be made.

15. Equivalent Liver Stiffness (E)  
 a. Median (kPa): \_\_\_\_\_  
 (1.5-75.0)  
 b. IQR (kPa): \_\_\_\_\_  
 c. IQR/med: \_\_\_\_\_  
 %

16. Controlled Attenuation Parameter (CAP)  
 a. Median (dB/m): \_\_\_\_\_  
 (100-400)  
 b. IQR (dB/m): \_\_\_\_\_

**E. FibroScan® exam #2 results**

(This may be done by the same technician or a different technician).

17. FibroScan® Technician PIN: \_\_\_\_\_

18. Number of measurements  
 a. Valid measurements\*: \_\_\_\_\_  
 # of valid measurements  
 b. Invalid measurements: \_\_\_\_\_  
 # of invalid measurements  
 c. Total measurements: \_\_\_\_\_  
 # of total measurements

**To calculate invalid measurements, subtract valid measurements from total measurements**

\* Note: at least ten valid measurements should be made.

19. Equivalent Liver Stiffness (E)  
 a. Median (kPa): \_\_\_\_\_  
 (1.5-75.0)  
 b. IQR (kPa): \_\_\_\_\_  
 c. IQR/med: \_\_\_\_\_  
 %

20. Controlled Attenuation Parameter (CAP)  
 a. Median (dB/m): \_\_\_\_\_  
 (100-400)  
 b. IQR (dB/m): \_\_\_\_\_

**F. Administrative information**

21. Study Physician PIN: \_\_\_\_\_

22. Study Physician signature: \_\_\_\_\_

23. Clinical Coordinator PIN: \_\_\_\_\_

24. Clinical Coordinator signature: \_\_\_\_\_

25. Date form reviewed: \_\_\_\_\_  
 day mon year

## FLINT

## MR - MRI Consent and Report Form

**Purpose:** To document the collection and transmittal of MRI data.

**When:** Visit s and f72.

**By whom:** Study Radiologist/Study Physician and Clinical Coordinator.

**Instructions:** Complete this form based on the consent documents signed by the patient. Patient may still participate in FLINT trial without an MRI. Please consult FLINT SOP VI for additional procedures.

**Before MRI examination** review the following basic information with subjects: 1) Subjects should fast for four or more hours if possible before the MRI examination. 2) Necessary medications are allowed with small amounts of water. 3) Rehearse breathing instructions with subject. Subjects will be asked to hold breath in end-inspiration to maximize breath-hold capacity and to reduce discomfort associated with breath-holding. 4) Explain the necessity of remaining still during the MRI examination.

**On day of MRI examination** confirm the following information with subjects: 1) Subject identity. 2) MRI consent is signed and a copy of consent kept on site. 3) No MRI contraindications. 4) Emptied bladder prior to scanning. 5) Subject has been weighed, and been asked height. 6) MRI-compatible clothing (no metal or metallic/shiny clothing). 7) Breathing instructions rehearsed and understood (subjects will be asked to hold breath in end-inspiration to maximize breath-hold capacity and reduce discomfort associated with breath-holding).

**Pre-MRI preparation:** 1) Subjects to be positioned supine. 2) Ensure subject comfortable on scanner table. 3) For 3T MRIs, place dielectric pad over liver. 4) Place phased-array coil (over dielectric pad, for 3T scanners) centered over the liver; ensure good connection to scanner.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision:  m r 1

7. Study: FLINT  7

8. Is FLINT MRI protocol currently in use at your center:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 17. \_\_\_\_\_

## B. Consent

9. Has the patient signed the FLINT MRI consent:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 17. \_\_\_\_\_

\* An MRI should not be performed unless consent is obtained.

## C. MRI results and information

10. Was an MRI performed:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )

12. \_\_\_\_\_

\* Complete item 11, then skip to item 17.

11. Reason MRI not performed (check all that apply)

a. Patient was not fasting: ( 1 )

b. Patient suffers from extreme claustrophobia: ( 1 )

c. Patients weight or girth exceeds MRI scanner capabilities: ( 1 )

d. Other (specify): ( 1 )

\_\_\_\_\_

17. \_\_\_\_\_

12. Technician name:

\_\_\_\_\_ print name

13. Date and time of MRI:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

a. Time:

\_\_\_\_\_ : \_\_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**14. Dates images sent to MRI Reading Center**

**a. By CD/DVD:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**b. By secure in-server connection (*enter "m" if not available*):**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**D. Administrative information**

**15. Study Radiologist or Study Physician**

PIN: \_\_\_\_\_

**16. Study Radiologist or Study Physician**

signature:  
\_\_\_\_\_

**17. Clinical Coordinator PIN:** \_\_\_\_\_

**18. Clinical Coordinator signature:**  
\_\_\_\_\_

**19. Date form reviewed:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year





## NAFLD Database 2

## IE - Interim Event Report

**Purpose:** To document events that occur after registration that impact on the patient's participation in the NAFLD Database 2 Study (eg, mild or moderate liver biopsy complications). Complete this form if there has been an incident cirrhosis, hepatocellular carcinoma (HCC), hospitalization, Emergency Room visit, liver transplant, an event associated with a study-related procedure, or death.

**When:** As needed; use visit code n. If more than one event is reported on the same calendar day (ie, same date in item 4 for all events), use visit code n for first event, n1 for second event, etc.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form for any event that meets the criteria above. The short name (item 16) and the severity code (item 17) are to be obtained from the NCI's Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at <https://jhuccs1.us/nash/default.asp>. Click on Documents and then click on General Documents. **Fax the DCC (Attention: Pat Belt) a copy of this form if severity grade is 3 or higher (Fax 410-955- 0932).**

**NASH CRN Data Coordinating Center telephone number:** (410) 955-8175.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:  
  n   \_\_\_\_\_

6. Form & revision:   i     e     3  

7. Study: NAFLD Database 2   6  

## B. Visit interval identification

8. Most recently completed visit (screening or follow-up)

a. Date:  
 \_\_\_\_\_  
 day                      mon                      year

b. Visit code: \_\_\_\_\_

## C. Patient information

9. Date enrolled in NAFLD Database 2 Study (enter n if patient is not yet enrolled):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

10. Gender:

Male ( )

Female ( )

11. Age at time of event: \_\_\_\_\_  
 years

## D. Event description

12. Date event started:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

13. Nature of event (check all that apply)

a. General anesthesia ( )

b. Study-related procedure: ( )

c. Drug interactions: ( )

d. Worsening of a co-morbid illness: ( )

e. Hypoglycemia: ( )

f. New-onset diabetes: ( )

g. Pregnancy (patient): ( )

h. Cirrhosis: ( )

i. Hepatocellular carcinoma (HCC): ( \* )  
 \* Complete and key the HC form.

j. Other (specify): ( )

\_\_\_\_\_  
 \_\_\_\_\_

**14.** Did the event lead to *(check all that apply)*

- a. Emergency room visit: (  )
- b. Hospitalization: (  )
- c. Infectious episode: (  )
- d. Surgical intervention: (  )

**15.** Describe event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**16.** Is the event listed in the NCI's Common Terminology Criteria for Adverse Events (CTCAE v3.0 document available at <https://jhucss1.us/nash/default.asp>; click on Documents and then click on General Documents):

- Yes (  )      No (  )

a. Indicate the name of the event (if in the CTCAE, specify name exactly from document; if not in CTCAE specify name):

\_\_\_\_\_

\_\_\_\_\_

**17.** Indicate the severity code using the CTCAE grading scale for the AE specified (*severity grades are listed in the CTCAE v3.0 document available at <https://jhucss1.us/nash/default.asp>; click on Documents and then click on General Documents*):

- Grade 1 - Mild (  )
- Grade 2 - Moderate (  )
- Grade 3 - Severe† (  )
- Grade 4 - Life threatening or disabling† (  )
- Grade 5 - Death† ( \*  )

†Fax the DCC (Attention Pat Belt) a copy of this form if severity grade is 3 or higher (Fax 410-955-0932).

\*Complete and key Death Report (DR) form.

**18.** Date event resolved  
(enter n if event is not yet resolved):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

**19.** What action was taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**20.** Other comments on event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**F. Administrative information**

**21.** Clinical Coordinator PIN: \_\_\_\_\_

**22.** Clinical Coordinator signature:  
\_\_\_\_\_

**23.** Study Physician PIN: \_\_\_\_\_

**24.** Study Physician signature:  
\_\_\_\_\_

**25.** Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day                      mon                      year

*Key this form and fax the DCC (Attention: Pat Belt) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious events so that we assure appropriate and timely study wide review. The received reports will be reviewed by Jeanne Clark, the Safety Officer, for appropriate further review by the Steering Committee and Data and Safety Monitoring Board.*

**FLINT****IE - Interim Event Report**

**Purpose:** To document an adverse event that threatens the integrity of the FLINT trial or well-being of a study participant that includes, but not limited to:

- (1) events that impact the patient's treatment or participation in FLINT
- (2) adverse events that are recorded on the Follow-Up Medical History (HI) form
- (3) adverse events that may or may not be related to study drug
- (4) other events that clinical center staff feel should be reported
- (5) when a follow-up report is needed for a previously completed IE form

As defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Adverse event* means any untoward medical occurrence associated with the use of a drug in humans, whether or not considered drug related.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, "reasonable possibility" means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "serious" if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgement, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Life-threatening adverse event or life-threatening suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "life-threatening" if, in the view of either the investigator or sponsor, its occurrence places the patient or subject at immediate risk of death. It does not include an adverse event or suspected adverse reaction that, had it occurred in a more severe form, might have caused death.

**When:** As needed. Use visit code if reporting an event discovered during a regular follow-up visit. Use visit code n if event is discovered between study visits. If more than one event is reported on the same calendar day (ie, same date in item 4 for all events), use visit code for first event, n for second event, n2 for third event, etc. Adverse events that are serious, unexpected and have reasonable possibility of being caused by FLINT study drug should also be recorded on the Serious Adverse Event/IND Safety Report (SR) form.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form for any event that meets the criteria above. The short name (item 16) and the severity grade (item 17) are to be obtained from the NCI's Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). Click on Studies and then FLINT. Fax the DCC (Fax 410-955-0932; Attention: Ivana Vaughn) a copy of this form if severity grade is 3 or higher within 1 week for further review by Dr. Jeanne Clark, the NASH CRN Safety Officer. For more information, see SOP I sections 6.15 and 6.16.

**Follow-up report:** A follow-up report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patient's condition or in the physician's judgment about the event since the previous report was filed.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report: \_\_\_\_\_  
 \_\_\_\_\_ day          \_\_\_\_\_ mon          \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_  
*if report not associated with a visit, fill in "n"*

6. Form & revision:   i     e     3  

7. Study:   FLINT     7



**17. Severity grade:**

- Not an adverse event ( 0 )
- Grade 1 - Mild ( 1 )
- Grade 2 - Moderate ( 2 )
- Grade 3 - Severe ( 3 )
- Grade 4 - Life threatening or disabling ( 4 )
- Grade 5 - Death ( \* 5 )

*\*Complete and key Death Report (DR) form.*

**18. Randomization in FLINT**

**a.** Has patient been randomized in FLINT:

- ( Yes ) ( 1 )
- ( No ) ( 2 )

**26.**

**b.** Date randomized in FLINT:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

**19. Is the patient currently receiving the FLINT study drug:**

- ( Yes ) ( 1 )
- ( No ) ( 2 )

**20. Patient's history of treatment with FLINT study drug**

**a.** How long has patient been on study drug:

\_\_\_\_\_

**b.** Have there been any treatment interruptions or restarts:

- ( Yes ) ( 1 )
- ( No ) ( 2 )

*Include stop/restart dates and reasons:*

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**21. Is there evidence to suggest a causal relationship between the FLINT study drug and the adverse event:**

- Definitely yes ( 1 )
- Probably yes ( 2 )
- Possibly yes ( 3 )
- Probably no ( 4 )
- Definitely no ( 5 )

**22. Is this a serious adverse event:**

- ( Yes ) ( 1 )
- ( No ) ( 2 )

**23.**

*If Yes, then select all the reasons that apply:*

- a.** Severity Grade 4 or 5: ( 1 )
- b.** Required inpatient hospitalization or prolonged existing hospitalization: ( 1 )
- c.** Persistent or significant incapacity or substantial disruption of ability to conduct normal life functions: ( 1 )
- d.** Jeopardized patient and required medical or surgical intervention to prevent a serious event: ( 1 )
- e.** Congenital abnormality or birth defect: ( 1 )

**23. Is this an unexpected adverse event:**

- ( Yes ) ( 1 )
- ( No ) ( 2 )

**25.**

**24. Reason the adverse event was unexpected:**

- Not listed in the obeticholic acid investigator's brochure ( 1 )
- Listed in the obeticholic acid investigator's brochure, but not at the specificity or severity that has been observed ( 2 )
- Listed in the obeticholic acid investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of obeticholic acid ( 3 )

**25. Did you select "Yes" for items 21 (definitely, probably, or possibly), 22, and 23:**

- ( Yes ) ( \* 1 )
- ( No ) ( 2 )

*\*If Yes, please also complete a Serious Adverse Event/IND Safety Report (SR) form and follow instructions.*

**26. Current status of adverse event (check only one):**

- Resolved ( 1 )
- Active ( 2 )
- Unknown ( 3 )

**28.**

**28.**

27. Date adverse event resolved:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

28. What action was taken:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

29. Other comments on event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

30. Clinical Coordinator PIN: \_\_\_\_\_

31. Clinical Coordinator signature:  
\_\_\_\_\_

32. Study Physician PIN: \_\_\_\_\_

33. Study Physician signature:  
\_\_\_\_\_

34. Date form reviewed:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

*Key this form and fax the DCC (Attention: Ivana Vaughn) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious adverse events so that we assure appropriate and timely study wide review. The serious adverse event reports will be reviewed by Dr. Jeanne Clark, the Safety Officer.*

## FLINT

## SR - Serious Adverse Event/IND Safety Report

**Purpose:** To report serious adverse events recorded on the Interim Event Report (IE) form that satisfy the FDA expedited FDA Safety Report requirements outlined in the FLINT Trial protocol. In order to satisfy FDA expedited *IND Safety Report* requirements the event must be **SERIOUS, UNEXPECTED, AND** have a **REASONABLE POSSIBILITY** of being caused by FLINT study drug, as defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered “**SERIOUS**” if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgment, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, “**REASONABLE POSSIBILITY**” means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Unexpected adverse event or unexpected suspected adverse reaction.* An adverse event or suspected adverse reaction is considered “**UNEXPECTED**” if it is not listed in the obeticholic acid investigator’s brochure or is not listed at the specificity or severity that has been observed for your patient.

**When:** The SR form should be used only for reporting a serious and unexpected adverse event which meets the IND Safety Report criteria as stated above, or when a followup report is needed for a previously completed SR form. When the serious adverse event does not meet the expedited IND Safety Report criteria, use the Interim Event Report (IE) form to report the event.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form **within 2 business days**. The short name (item 24) and the severity grade (item 25) are to be obtained from the NCI’s Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). (Click on Studies then click on FLINT). Report the serious adverse event to your IRB per local guidelines. Send the Data Coordinating Center the following:

- 1) A copy of this SR form and corresponding IE form
- 2) A narrative description of the event that includes all of the information provided on the SR and IE forms and a justification of why the event is serious, unexpected and has reasonable possibility of being caused by FLINT study drug (see FLINT SOP I, section 6.16).
- 3) A copy of your report to your IRB, if applicable

The Data Coordinating Center will submit a preliminary copy of the report to NIDDK (Sponsor) for further review within 3 business days. If NIDDK staff determines that an expedited IND Safety Report is required, a final report will be submitted to the FDA (within 15 days). Intercept Pharmaceuticals (manufacturer of study drug), the DSMB, and Steering Committee will be notified of all serious adverse events requiring an expedited IND safety report within 7 days of keying the SR form. For more information, see FLINT SOP I, section 6.16.

**Followup report:** A followup report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patient’s condition or in the physician’s judgment about the event since the previous report was filed.

**A. Center, patient and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year5. Visit code: \_\_\_\_\_  
*If report not associated with a visit, fill in “n.”*6. Form & revision: s r 37. Study: FLINT 7



**B. Participant information**

8. Date randomized in FLINT:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

9. Gender:

- Male ( 1 )
- Female ( 2 )

10. Age at time of adverse event: \_\_\_\_\_ years

**C. Determination of an serious adverse report**

11. Is there evidence to suggest a causal relationship between FLINT study drug and the adverse event:

- Definitely yes ( 1 )
- Probably yes ( 2 )
- Possibly yes ( 3 )
- Probably no ( 4 )
- Definitely no ( 5 )

15.

12. Is this a serious adverse event:

- Yes ( 1 )
- No ( 2 )

15.

*If Yes, then select all the reasons that apply:*

- a. Severity Grade 4 or 5: ( 1 )
- b. Required inpatient hospitalization or prolonged existing hospitalization: ( 1 )
- c. Persistent or significant incapacity or substantial disruption of ability to conduct normal life functions: ( 1 )
- d. Jeopardized patient and required medical or surgical intervention to prevent a serious event: ( 1 )
- e. Congenital abnormality or birth defect: ( 1 )

13. Is this an unexpected adverse event:

- Yes ( 1 )
- No ( 2 )


15.

14. Reason the adverse event was unexpected:

- Not listed in the obeticholic acid investigator brochure ( 1 )
- Listed in the obeticholic acid investigator's brochure, but not at the specificity or severity that has been observed ( 2 )
- Listed in the obeticholic acid investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of obeticholic acid ( 3 )

15. Did you select "Yes" for items 11, 12, and 13:

Yes ( \* 1 )      No ( † 2 )



*\*NIDDK will determine if an expedited IND Safety Report will be submitted to the FDA within 15 calendar days.*

*†Use FLINT forms HI and IE to report adverse events that are not serious, not associated with the FLINT study drug, or are expected. Do not key this form.*

**D. Serious adverse event description**

16. Is this the first report or a followup report for this serious adverse event:

- First report ( 1 )
- Followup report ( 2 )

17. Date of serious adverse event onset:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

18. Date serious adverse event was reported to clinical center:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

19. Describe the serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. Medications or supplements other than FLINT study drug in use at the time of serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Specify tests/treatments and comorbidities:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. Was an unscheduled liver biopsy performed:

( Yes ) ( No )  
( \* 1 ) ( 2 )

*\*Attach a copy of the institutional pathology report to the SR form.*

23. Did the serious adverse event result in significant sequelae:

( Yes ) ( No )  
( 1 ) ( 2 )

*Specify:*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Short name for serious adverse event (short names for AEs are listed in the CTCAE v3.0 document available at [www.nashern.com](http://www.nashern.com); click on Studies and then click on FLINT):

\_\_\_\_\_  
\_\_\_\_\_

25. Severity grade (severity grades are listed in the CTCAE v3.0 document available at [www.nashern.com](http://www.nashern.com); click on Studies and then click on FLINT):

Grade 3 - Severe ( 1 )  
Grade 4 - Life threatening or disabling ( 2 )  
Grade 5 - Death ( \* 3 )

*\*Complete and key the Death Report (DR) form.*

26. Current status of serious adverse event (check only one):

Resolved ( 1 )  
Active ( 2 )  
Unknown ( 3 )

28.

28.

27. Date resolved:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

28. Additional comments on serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

29. Study Physician PIN: \_\_\_\_\_

30. Study Physician signature:  
\_\_\_\_\_

31. Clinical Coordinator PIN: \_\_\_\_\_

32. Clinical Coordinator signature:  
\_\_\_\_\_

33. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                  day                  mon                  year

*Key this form and send the DCC within  
2 business days:*

- (1) A copy of this SR form*
- (2) A narrative description of the serious  
adverse event*
- (3) A copy of your report to your IRB.*

*We are asking for copies of these reports on serious adverse events so that we assure appropriate and timely study wide review. The serious adverse event report will be reviewed by Dr. Jeanne Clark, the Safety Officer, and NIDDK (Sponsor).*



14. Do any of the patient's first degree relatives (parent, brother, sister, child) have atrophy of body fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

15. Do any of the patient's first degree relatives (parent, brother, sister, child) have a problem with cholesterol or blood fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

19. Does the patient have a liver biopsy done no more than 90 days prior to registration in the Database 2 Study that you want evaluated for the Database 2 Study (*complete the Liver Biopsy Histology Findings (HF) and Liver Biopsy Materials Documentation (SD) forms for this biopsy*):

( Yes ( \* 1 ) No ( 2 ) )

21. \_\_\_\_\_

*\*Blood drawn for specimen collection must be within 90 days of the biopsy.*

20. Date of liver biopsy no more than 90 days prior to registration in Database 2 Study that you want evaluated:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**C. NAFLD history**

16. Date patient was first diagnosed with fatty liver disease or NASH-related cirrhosis:
- \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

21. Will the patient have a biopsy during screening:
- ( Yes ( \* 1 ) No ( 2 ) )

17. What prompted the evaluation for NAFLD, NASH, or NASH-related cirrhosis (*check all that apply*)
- a. Symptoms for liver disease: ( 1 )  
 b. Result of being evaluated for another illness: ( 1 )  
 c. During a routine or insurance physical examination: ( 1 )  
 d. Blood donation: ( 1 )  
 e. Other (*specify*): ( 1 )

*\*Complete the Liver Biopsy Histology Findings (HF) and Liver Biopsy Materials Documentation (SD) forms for this biopsy. Blood draw for banking should be done prior to the biopsy or 4 days after the biopsy.*

22. Has the patient had a liver imaging study in the past 6 months:
- ( Yes ( \* 1 ) No ( 2 ) )

*\*Complete the Liver Imaging Studies Report (IR) form.*

\_\_\_\_\_ specify

**D. Weight history**

18. What procedures/tests supported this first diagnosis (*check all that apply*)
- a. Liver biopsy: ( 1 )  
 b. Imaging studies (*Ultrasound, CT, MRI*): ( 1 )  
 c. Elevated aminotransferases: ( 1 )  
 d. Other (*specify*): ( 1 )

23. What was the patient's birthweight:
- \_\_\_\_\_ lbs \_\_\_\_\_ oz

\_\_\_\_\_ specify

24. Review flashcard 11. Which (picture) best describes your weight pattern over the past 5 years (*check only one*):
- Up and down, up and down ( 1 )  
 Up gradually ( 2 )  
 Up sharply (*gained a lot in a brief interval*) ( 3 )  
 Down gradually ( 4 )  
 Down sharply (*lost a lot in a brief interval*) ( 5 )  
 No or minimal change ( 6 )

25. What is the patient's current weight  
(ask the patient for his/her weight):  
\_\_\_\_\_ lbs

26. What is the most the patient has ever  
weighed:  
\_\_\_\_\_ lbs

27. At what age did the patient weigh the  
most:  
\_\_\_\_\_ age in years

28. Is the patient age 18 or older:  
 Yes ( 1 )  No ( 2 )  
31.

29. What is the least the patient has ever  
weighed since age 18:  
\_\_\_\_\_ lbs

30. At what age did the patient weigh the  
least since age 18:  
\_\_\_\_\_ age in years

31. Does the patient weigh more than he/she  
did one year ago:  
 Yes ( 1 )  No ( 2 )  
33.

32. How much more does the patient weigh  
now compared to one year ago:  
\_\_\_\_\_ lbs

33. Does the patient weigh less than he/she  
did one year ago:  
 Yes ( 1 )  No ( 2 )  
35.

34. How much less does the patient weigh  
now compared to one year ago:  
\_\_\_\_\_ lbs

35. Did the patient try to lose or gain weight:  
 Yes ( 1 )  No ( 2 )  
37.

36. Which did the patient try to do (check only one):  
Gain weight ( 1 )  
Lose weight ( 2 )

**E. Tobacco cigarette smoking history** (interview with patient; not interview with parent, not by chart review)

37. Is the patient age 12 or older:  
 Yes ( 1 )  No ( 2 )  
43.

38. Have you ever smoked tobacco cigarettes:  
Never ( 1 )  
In the past but not anymore ( 2 )  
Currently smokes cigarettes ( 3 )  
43.

39. Did you smoke cigarettes regularly ("No" means  
less than 20 packs of cigarettes in a lifetime or less  
than 1 cigarette a day for one year):  
 Yes ( 1 )  No ( 2 )  
43.

40. How old were you when you first started  
regular cigarette smoking:  
\_\_\_\_\_ years

41. How old were you when you (last)  
stopped smoking cigarettes (code as "n" if the pa-  
tient didn't stop smoking):  
\_\_\_\_\_ years

42. On the average of the entire time that you  
smoked cigarettes, how many cigarettes  
did you smoke per day:  
\_\_\_\_\_ cigarettes/day

**F. Menstrual history**

43. Is the patient female:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

44. Has menarche occurred:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

45. If yes, what was the patient's age at menarche:

\_\_\_\_\_  
 age in years

46. Characterize the menstrual history in the past 5 years (check only one):

- Regular periods ( 1 )
- Irregular periods ( 2 )
- Rare periods ( 3 )
- No periods ( 4 )

47. Is patient post-menopausal:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

48. What was the patient's age at menopause:

\_\_\_\_\_  
 age in years

**G. Medical history** ( means Caution; condition is exclusionary if study physician agrees with diagnosis)

49. Has the patient ever been diagnosed with and treated for any of the following (check all that apply; source of information can be interview and/or chart review)

- a. Diabetes type 1: ( 1 )
- b. Diabetes type 2: ( 1 )
- c. Gestational diabetes (diabetes of pregnancy): ( 1 )
- d. Hepatitis B: ( 1 )
- e. Hepatitis C: ( 1 )

- f. Autoimmune hepatitis: ( 1 )
- g. Autoimmune cholestatic liver disorder (PBC or PSC): ( 1 )
- h. Wilson's disease: ( 1 )
- i. Alpha-1-antitrypsin (A1AT) deficiency: ( 1 )
- j. Glycogen storage disease: ( 1 )
- k. Iron overload: ( 1 )
- l. Polycystic liver disease: ( 1 )
- m. Drug induced liver disease: ( 1 )
- n. Gilbert's syndrome: ( 1 )
- o. Esophageal or gastric varices on endoscopy: ( 1 )
- p. Bleeding from varices: ( 1 )
- q. Other gastrointestinal bleeding: ( 1 )
- r. Ascites: ( 1 )
- s. Edema: ( 1 )
- t. Hepatic encephalopathy: ( 1 )
- u. Portal hypertension: ( 1 )
- v. Hepatorenal syndrome: ( 1 )
- w. Hepatopulmonary syndrome: ( 1 )
- x. Short bowel syndrome: ( 1 )
- y. Hemophilia (bleeding disorder): ( 1 )
- z. HIV positive: ( 1 )
- aa. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: ( 1 )
- ab. Endocrine disease (hormonal abnormality): ( 1 )
- ac. Hepatocellular carcinoma: ( 1 )
- ad. Other malignancy (cancer): ( 1 )
- ae. Peripheral neuropathy: ( 1 )

- af. Seizure disorder or epilepsy: (  )
- ag. Drug allergies: (  )
- ah. Hypothyroidism: (  )
- ai. Hypertension: (  )
- aj. Cerebrovascular disease: (  )
- ak. Dysbetalipoproteinemia: (  )
- al. Chronic cholestasis: (  )
- am. Hyperlipidemia (*high cholesterol, high triglycerides*): (  )
- an. Pancreatitis: (  )
- ao. Cholelithiasis: (  )
- ap. Coronary artery disease: (  )
- aq. Elevated uric acid such as gout: (  )
- ar. Kidney disease: (  )
- as. Polycystic ovary syndrome: (  )
- at. Sleep apnea (*not breathing during sleep*): (  )
- au. Dermatologic disorders: (  )
- av. Myopathy: (  )
- aw. Myositis: (  )
- ax. Major depression: (  )
- ay. Schizophrenia: (  )
- az. Bipolar disorder: (  )
- ba. Obsessive compulsive disorder: (  )
- bb. Severe anxiety or personality disorder: (  )
- bc. None of the above: (  )



**51. Organ, limb, or bone marrow transplant**

- a. Has the patient ever received a liver transplant:
 

Yes	No
( <input type="checkbox"/> )	( <input type="checkbox"/> )
- b. Has the patient ever received any other organ, limb, or bone marrow transplant:
 

Yes	No
( <input type="checkbox"/> )	( <input type="checkbox"/> )

**52. Has the patient received total parenteral nutrition (TPN) for more than 1 month within 6 months prior to liver biopsy:**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |



**53. Is the patient currently undergoing evaluation for bariatric surgery:**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |

**54. Does the patient have symptoms suggestive of sleep apnea (*snoring, observed periods of apnea, disruptive sleep disturbances*):**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |

**50. Has the patient ever had surgery for any of the following (*check all that apply*)**

- a. Stapling or banding of the stomach: (  )
  - b. Jejunioleal (*or other intestinal*) bypass prior to the diagnosis of NAFLD: (  )
  - c. Biliopancreatic diversion: (  )
  - d. Other GI or bariatric surgery (*specify*): (  )
- 
- e. None of the above: (  )





**H. Medication use**

**55.** Has the patient used any antidiabetic medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**56.**

*(If yes, check all that apply):*

- a.** Acarbose (Precose): (  )
  - b.** Acetohexamide (Dymelor): (  )
  - c.** Chlorpropamide (Diabinese): (  )
  - d.** Glimepiride (Amaryl): (  )
  - e.** Glipizide (Glucotrol, Glucotrol XL): (  )
  - f.** Glyburide (Micronase, DiaBeta, Glynase): (  )
  - g.** Insulin: (  )
  - h.** Metformin (Glucophage, Glucophage XR): (  )
  - i.** Miglitol (Glycet): (  )
  - j.** Nateglinide (Starlix): (  )
  - k.** Pioglitazone (Actos): (  )
  - l.** Repaglinide (Prandin): (  )
  - m.** Rosiglitazone (Avandia): (  )
  - n.** Tolazamide (Tolinase): (  )
  - o.** Tolbutamide (Orinase): (  )
  - p.** Other, *(specify)*: (  )
- 

**56.** Has the patient taken any alcohol abuse (dependence or withdrawal) medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**57.**

*(If yes, check all that apply):*

- a.** Chlordiazepoxide (Librium): (  )
  - b.** Clorazepate dipotassium (Tranxene): (  )
  - c.** Diazepam (Valium): (  )
  - d.** Disulfiram (Antabuse): (  )
  - e.** Hydroxyzine pamoate (Vistaril): (  )
  - f.** Naltrexone hydrochloride (Revia): (  )
  - g.** Other, *(specify)*: (  )
- 

**57.** Has the patient taken any antihyperlipidemic medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**58.**

*(If yes, check all that apply):*

- a.** Atorvastatin (Lipitor): (  )
  - b.** Colestipol hydrochloride (Colestid): (  )
  - c.** Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
  - d.** Gemfibrozil (Gen-Fibro, Lopid): (  )
  - e.** Fenofibrate (Tricor): (  )
  - f.** Fluvastatin sodium (Lescol): (  )
  - g.** Lovastatin (Mevacor): (  )
  - h.** Nicotinic acid (Niaspan): (  )
  - i.** Pravastatin sodium (Pravachol): (  )
  - j.** Rosuvastatin (Crestor): (  )
  - k.** Simvastatin (Zocor): (  )
  - l.** Other, *(specify)*: (  )
- 

**58.** Has the patient taken any antiobesity medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**59.**

*(If yes, check all that apply):*

- a.** Dexfenfluramine hydrochloride (Redux): (  )
  - b.** Fenfluramine hydrochloride (Pondimin): (  )
  - c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
  - d.** Orlistat (Xenical): (  )
  - e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
  - f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
  - g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
  - h.** Other, *(specify)*: (  )
-

59. Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

60.

(If yes, check all that apply):

- a. Acetaminophen (Tylenol): ( 1 )
- b. Aspirin - 325 mg: ( 1 )
- c. Aspirin - 81 mg: ( 1 )
- d. Celecoxib (Celebrex): ( 1 )
- e. Ibuprofen (Advil, Motrin): ( 1 )
- f. Indomethacin (Indocin): ( 1 )
- g. Naproxen (Aleve, Naprosyn): ( 1 )
- h. Rofecoxib (Vioxx): ( 1 )
- i. Other, (specify): ( 1 )

\_\_\_\_\_

j. Other, (specify): ( 1 )

\_\_\_\_\_

60. Has the patient taken any strong opiates containing acetaminophen medication in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

61.

(If yes, check all that apply):

- a. Darvocet: ( 1 )
- b. Esgic - Plus: ( 1 )
- c. Fioricet: ( 1 )
- d. Lorcet: ( 1 )
- e. Lortab: ( 1 )
- f. Norco: ( 1 )
- g. Percocet: ( 1 )
- h. Talacen: ( 1 )
- i. Tylenol #3: ( 1 )
- j. Tylenol #4: ( 1 )
- k. Tylox: ( 1 )
- l. Vicodin: ( 1 )
- m. Wygesic: ( 1 )
- n. Other, (specify): ( 1 )

61. Has the patient taken any histamine H2 receptor antagonists/other gastrointestinal medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

62.

(If yes, check all that apply):

- a. Cimetidine (Tagamet): ( 1 )
- b. Esomeprazole magnesium (Nexium): ( 1 )
- c. Famotidine (Pepcid): ( 1 )
- d. Lansoprazole (Prevacid): ( 1 )
- e. Nizatidine (Axid): ( 1 )
- f. Omeprazole (Prilosec): ( 1 )
- g. Ranitidine (Zantac): ( 1 )
- h. Ranitidine bismuth citrate (Tritec): ( 1 )
- i. Antacids, (specify): ( 1 )

\_\_\_\_\_

j. Other, (specify): ( 1 )

\_\_\_\_\_

62. Has the patient taken any anticoagulant/antiplatelet medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

63.

(If yes, check all that apply):

- a. Clopidogrel (Plavix): ( 1 )
- b. Dipyridamole: ( 1 )
- c. Heparin: ( 1 )
- d. Ticlopidine (Ticlid): ( 1 )
- e. Warfarin (Coumadin): ( 1 )
- f. Other, (specify): ( 1 )

\_\_\_\_\_

**63.** Has the patient taken any systemic corticosteroids in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**64.**

*(If yes, check all that apply):*

- a.** Betamethasone sodium (Celestone): ( 1 )
- b.** Cortisol: ( 1 )
- c.** Cortisone: ( 1 )
- d.** Dexamethasone (Decadron): ( 1 )
- e.** Hydrocortisone (Hydrocortone): ( 1 )
- f.** Methylprednisolone (Solu-Medrol): ( 1 )
- g.** Prednisolone (Prelone): ( 1 )
- h.** Prednisone: ( 1 )
- i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): ( 1 )
- j.** Other, *(specify)*: ( 1 )

**64.** Has the patient taken any cardiovascular/antihypertensive medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**65.**

*(If yes, check all that apply):*

- a.** Amiodarone (Pacerone): ( 1 )
- b.** Amlodipine besylate (Norvasc): ( 1 )
- c.** Atenolol (Tenormin): ( 1 )
- d.** Benazepril (Lotensin): ( 1 )
- e.** Captopril (Capoten): ( 1 )
- f.** Clonidine (Catapres): ( 1 )
- g.** Digoxin (Lanoxin): ( 1 )
- h.** Diltiazem (Cardizem): ( 1 )
- i.** Doxazosin (Cardura): ( 1 )
- j.** Enalapril (Vasotec): ( 1 )
- k.** Felodipine (Plendil): ( 1 )
- l.** Furosemide (Lasix): ( 1 )
- m.** Hydrochlorothiazide (Esidrix, HydroDIURIL): ( 1 )
- n.** Hydrochlorothiazide + triamterene (Dyazide): ( 1 )
- o.** Lisinopril (Prinivil, Zestril): ( 1 )
- p.** Losartan potassium (Cozaar): ( 1 )
- q.** Losartan potassium with hydrochlorothiazide (Hyzaar): ( 1 )
- r.** Metoprolol (Lopressor): ( 1 )
- s.** Nifedipine (Adalat, Procardia): ( 1 )
- t.** Perhexiline maleate: ( 1 )
- u.** Propranolol (Inderal): ( 1 )
- v.** Quinapril (Accupril): ( 1 )
- w.** Terazosin (Hytrin): ( 1 )
- x.** Timolol maleate (Blocadren): ( 1 )
- y.** Valsartan (Diovan): ( 1 )
- z.** Verapamil (Calan): ( 1 )
- aa.** Other, *(specify)*: ( 1 )

**ab.** Other, *(specify)*: ( 1 )

**65.** Has the patient taken any estrogen, progestin, hormone replacement therapy, or selective estrogen receptor modulators in the past 3 months:

Yes ( 1 )      No ( 2 )  
**66.**

*(If yes, check all that apply):*

- a.** Conjugated estrogen (Premarin/Prempro): ( 1 )
- b.** Diethylstilbestrol and methyltestosterone (Tylosterone): ( 1 )
- c.** Esterified estrogen (Estratab, Menest): ( 1 )
- d.** Estradiol (Estrace): ( 1 )
- e.** Ethinyl estradiol (Estinyl): ( 1 )
- f.** Fluoxymesterone (Android-F, Halotestin): ( 1 )
- g.** Levonorgestrel (Norplant): ( 1 )
- h.** Medroxyprogesterone (Cycrin, Provera): ( 1 )
- i.** Megestrol (Megace): ( 1 )
- j.** Methyltestosterone (Android): ( 1 )
- k.** Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): ( 1 )
- l.** Norethindrone (Micronor): ( 1 )
- m.** Norgestrel (Ovrette): ( 1 )
- n.** Oral contraceptives: ( 1 )
- o.** Oxandrolone (Oxandrin): ( 1 )
- p.** Oxymetholone (Anadrol): ( 1 )
- q.** Progesterone (Prometrium): ( 1 )
- r.** Raloxifene (Evista): ( 1 )
- s.** Tamoxifen (Nolvadex): ( 1 )
- t.** Other, *(specify)*: ( 1 )  
 \_\_\_\_\_
- u.** Other, *(specify)*: ( 1 )  
 \_\_\_\_\_

**66.** Has the patient taken any allergy or asthma medications in the past 3 months:

Yes ( 1 )      No ( 2 )  
**67.**

*(If yes, check all that apply):*

- a.** Beclomethasone dipropionate (Becloment, Vanciril): ( 1 )
- b.** Budesonide (Pulmicort, Rhinocort): ( 1 )
- c.** Fluticasone propionate (Flonase, Flovent): ( 1 )
- d.** Loratadine (Claritin): ( 1 )
- e.** Mometasone furoate (Nasonex): ( 1 )
- f.** Triamcinolone acetonide (Azmecort, Nasacort): ( 1 )
- g.** Other, *(specify)*: ( 1 )  
 \_\_\_\_\_
- h.** Other, *(specify)*: ( 1 )  
 \_\_\_\_\_

**67.** Has the patient taken a multivitamin regularly in the past 3 months:

Yes ( 1 )      No ( 2 )

**68.** Has the patient taken vitamins other than multivitamins in the past 3 months:

Yes ( 1 )      No ( 2 )  
**70.**

**69.** Which vitamins has the patient taken *(check all that apply)*:

- a.** Vitamin B (any type): ( 1 )
- b.** Vitamin C: ( 1 )
- c.** Vitamin D: ( 1 )
- d.** Vitamin E: ( 1 )
- e.** Other, *(specify)*: ( 1 )  
 \_\_\_\_\_

70. Has the patient taken any supplements in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

71.

(If yes, check all that apply):

- a. Alpha-lipoic acid: ( 1 )
- b. Alpha-tocopherol: ( 1 )
- c. Beta-carotene: ( 1 )
- d. Betaine (Cystadane): ( 1 )
- e. Calcium (any form): ( 1 )
- f. Carnitine (any form): ( 1 )
- g. Chondroitin (any form): ( 1 )
- h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): ( 1 )
- i. Cod liver oil: ( 1 )
- j. Coenzyme Q: ( 1 )
- k. Dichloroacetate: ( 1 )
- l. Echinacea: ( 1 )
- m. Fish oil (any form): ( 1 )
- n. Flax seed oil: ( 1 )
- o. Garlic: ( 1 )
- p. Ginkgo biloba: ( 1 )
- q. Glucosamine (any form): ( 1 )
- r. Lecithin: ( 1 )
- s. Magnesium: ( 1 )
- t. Milk thistle: ( 1 )
- u. N-acetyl-cysteine: ( 1 )
- v. Potassium (any form): ( 1 )
- w. S-adenylmethionine (SAM-e): ( 1 )
- x. Saw palmetto: ( 1 )
- y. Selenium: ( 1 )
- z. St. John's Wort: ( 1 )
- aa. Taurine: ( 1 )
- ab. Zinc picolinate: ( 1 )
- ac. Other, (specify): ( 1 )

ad. Other, (specify): ( 1 )

71. Has patient taken any of the following medications or other supplements/medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

72.

(If yes, record all other supplements/medications):

- a. Demeclocycline (Declomycin): ( 1 )
  - b. Divalproex (Depakote): ( 1 )
  - c. Doxycycline (Monodox): ( 1 )
  - d. Isotretinoin (Accutane): ( 1 )
  - e. Levothyroxine (Levoxyl, Synthroid): ( 1 )
  - f. Liothyronine (Cytomel): ( 1 )
  - g. Methotrexate (Rheumatrex): ( 1 )
  - h. Minocycline (Dynacin, Minocin): ( 1 )
  - i. Oxytetracycline (Terramycin): ( 1 )
  - j. Penicillamine (Cuprimine, Depen): ( 1 )
  - k. Tetracycline (Achromycin): ( 1 )
  - l. Trientine hydrochloride (Syprine): ( 1 )
  - m. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): ( 1 )
  - n. Valproate sodium (Depacon): ( 1 )
  - o. Valproic acid (Depakene): ( 1 )
  - p. Other, (specify): ( 1 )
- 
- q. Other, (specify): ( 1 )
- 
- r. Other, (specify): ( 1 )
-

**I. Administrative information**

72. Study Physician PIN: \_\_\_\_\_

73. Study Physician signature:  
\_\_\_\_\_

74. Clinical Coordinator PIN: \_\_\_\_\_

75. Clinical Coordinator signature:  
\_\_\_\_\_

76. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

## NAFLD Database 2

## IR - Liver Imaging Studies Report

**Purpose:** To record liver imaging study results.

**When:** As needed during screening (visit t0) and follow-up (visits t048, t096, t144, t192, t240, t288, t336, t384, t432, and t480).

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form at each of the visits listed above if the Baseline Medical History (BG) or Follow-up Medical History (HI) form says that a liver imaging study was obtained in the specified period. The form will allow you to skip out of sections that are irrelevant to your patient. What you will report at each visit are the results of the most recent scan of each type done in the 6 months prior to screening (visit t0) or in the period since the prior study visit (after enrollment). These will likely be standard of care scans with results obtained via medical records. In each case, answer the items based on review of the report; the Study Physician must review and approve the findings recorded on this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year
5. Visit code: \_\_\_\_\_
6. Form & revision:   i     r     1
7. Study: NAFLD Database 2   6

### B. Upper abdominal ultrasound

8. Did the patient have an upper abdominal ultrasound in the past 6 months (*screening*)/since the last visit (*follow-up*):

(Yes) (No)  
 ( 1 ) ( 2 )  
 11. ————

9. Date of most recent upper abdominal ultrasound:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

10. Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( )
- b. Cirrhosis: ( )
- c. Hepatomegaly: ( )
- d. Hepatic mass: ( )
- e. Intrahepatic biliary dilatation: ( )
- f. Extrahepatic biliary dilatation: ( )
- g. Gallstones/cholelithiasis: ( )
- h. Gall bladder polyps: ( )
- i. Cholecystectomy: ( )
- j. Splenomegaly: ( )
- k. Ascites: ( )
- l. Other features of portal hypertension (*specify*): ( )  
 \_\_\_\_\_  
 \_\_\_\_\_
- m. Other abnormality (*specify*): ( )  
 \_\_\_\_\_  
 \_\_\_\_\_
- n. None of the above: ( )

**C. Upper abdominal CT scan**

**11.** Did the patient have an upper abdominal CT scan in the past 6 months (*screening*)/  
since the last visit (*follow-up*):

Yes ( 1 )      No ( 2 )  
        
**14.**

**12.** Date of most recent upper abdominal CT scan:

\_\_\_\_\_  
 day                  mon                  year

**13.** Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( 1 )
- b. Cirrhosis: ( 1 )
- c. Hepatomegaly: ( 1 )
- d. Hepatic mass: ( 1 )
- e. Hepatic hemangioma: ( 1 )
- f. Hepatic cyst: ( 1 )
- g. Intrahepatic biliary dilatation: ( 1 )
- h. Extrahepatic biliary dilatation: ( 1 )
- i. Gallstones/cholelithiasis: ( 1 )
- j. Gall bladder polyps: ( 1 )
- k. Cholecystectomy: ( 1 )
- l. Splenomegaly: ( 1 )
- m. Ascites: ( 1 )
- n. Other features of portal hypertension (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- o. Other abnormality (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- p. None of the above: ( 1 )

**D. Upper abdominal MRI**

**14.** Did the patient have an upper abdominal MRI in the past 6 months (*screening*)/  
since the last visit (*follow-up*):

Yes ( 1 )      No ( 2 )  
        
**17.**

**15.** Date of most recent upper abdominal MRI:

\_\_\_\_\_  
 day                  mon                  year

**16.** Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( 1 )
- b. Cirrhosis: ( 1 )
- c. Hepatomegaly: ( 1 )
- d. Hepatic mass: ( 1 )
- e. Hepatic hemangioma: ( 1 )
- f. Hepatic cyst: ( 1 )
- g. Intrahepatic biliary dilatation: ( 1 )
- h. Extrahepatic biliary dilatation: ( 1 )
- i. Splenomegaly: ( 1 )
- j. Ascites: ( 1 )
- k. Other features of portal hypertension (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- l. Other abnormality (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- m. None of the above: ( 1 )



**E. Administrative information**

17. Study Physician PIN: \_\_\_\_\_

18. Study Physician signature:  
\_\_\_\_\_

19. Clinical Coordinator PIN: \_\_\_\_\_

20. Clinical Coordinator signature:  
\_\_\_\_\_

21. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

# **NASH CRN NAFLD Database**

## NAFLD Database Form Abbreviations and Case Report Form Names

Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
AN	Serious Adverse Event Report
BC	Blood Collection for DNA
BD	Food Questionnaire Documentation
BG	Baseline History
BP	Blood Processing for Plasma and Serum
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
DR	Death Report
ED	Database Enrollment
FI	Family Member Identification
HE	Histology Findings for Most Recent Liver Biopsy Done Prior to Database Registration
HF	Liver Biopsy Histology Findings
HG	Histology Findings for Next Most Recent Liver Biopsy Done Prior to Database Registration
HI	Follow-up Medical History
IE	Interim Event Report
IR	Liver Imaging Studies Report
LD	Lifetime Drinking History (Skinner)
LP	Symptoms of Liver Disease (Children)
LQ	Symptoms of Liver Disease
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
MA	Modifiable Activity Questionnaire
MV	Missed or Incomplete Visit
PA	Physical Activity
PE	Physical Examination
PF	Focused Physical Examination
PQ	Pediatric QOL: Parent Report for Teens (Age 13-17)

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PR	Pediatric QOL: Parent Report for Children (Age 8-12)
PS	Pediatric QOL: Parent Report for Young Children (Age 5-7)
PT	Pediatric QOL: Parent Report for Toddlers (Age 2-4)
PV	Pediatric QOL: Young Child Report (Age 5-7)
PW	Pediatric QOL: Child Report (Age 8-12)
PY	Pediatric QOL: Teen Report (Age 13-17)
QF	MOS 36-Item Short-Form Health Survey
RC	Rescreen Form
RG	Registration
SD	Liver Biopsy Materials Documentation
SE	Most Recent Prior Liver Biopsy Materials Documentation
SF	Next Most Recent Prior Liver Biopsy Materials Documentation
TN	Transfer Notification

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## NAFLD Database

AD – Alcohol Use Disorders Identification Test  
(AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Visit s1.

**Administered by:** Self-administered (*age 13 or older*), interviewer administered (*age 8-12*). Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient, age 8 or older. Patients age 13 or older should complete the form without help from spouse or family. Clinical Coordinator/parent can assist patients age 8-12.

**Instructions:** Flash Card #15, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. If the form is self-administered by the patient, the patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator then should complete section B below.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code:   s     1   \_\_\_\_\_
6. Form & revision:   a     d     1
7. Study: NAFLD Database   1

**B. Administrative information**

(*To be completed by Clinical Coordinator after survey is completed.*)

8. How was the questionnaire completed:  
 Self-administered by patient ( )  
10  Interview in English ( )  
 Interview with translator ( )
9. Who was the respondent (*check all that apply*):  
 a. Patient: ( )  
 b. Patient's mother or female guardian: ( )  
 c. Patient's father or male guardian: ( )  
 d. Other (*specify*): ( )

\_\_\_\_\_ specify

**10. Clinical Coordinator**

- a. PIN: \_\_\_\_\_
- b. Signature: \_\_\_\_\_

**11. Date form reviewed:**

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-11 are for clinical center use only*).

12. How often do you have a drink containing alcohol?

Never	Monthly or less	Two to four times a month	Two to three times a week	Four or more times a week
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

↳ **22.**

13. How many drinks containing alcohol do you have on a typical day when you are drinking?

1 or 2	3 or 4	5 or 6	7 to 9	10 or more
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

14. How often do you have six or more drinks on one occasion?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

15. How often during the last year have you found that you were not able to stop drinking once you had started?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

16. How often during the last year have you failed to do what was normally expected from you because of drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

17. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

18. How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

19. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

20. Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0)	( 1)	( 2)

21. Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0)	( 1)	( 2)

22. Today's date:

---

**Thank you for completing this questionnaire.**





14. In the past, has the patient ever received a study drug or intervention for a NASH CRN pilot or feasibility study or ancillary study:

( Yes ) ( No )  
( 1 ) ( 2 )  
16.

15. Specify the study drug or intervention:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**C. Serious adverse event description**

16. Date of event onset:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

17. Date event was reported to center:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

18. Describe the adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. Medications in use at time of adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. Specify tests/treatments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Did the event result in significant sequelae:

( Yes ) ( No )  
( 1 ) ( 2 )  
22.

Specify:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. Is this the first report or a followup report for this adverse event:

First report ( 1 )  
Followup report ( 2 )

23. Short name for adverse event (short names for AEs are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents):

\_\_\_\_\_  
\_\_\_\_\_

24. Severity grade (3-5) (Severity grades are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents; use NAFLD Database forms HI, IE, and LR to report adverse events of Grade 1 (mild) or Grade 2 (moderate); do not key this form; call the DCC if unsure what to do.):

Grade 3 - Severe ( 1 )  
Grade 4 - Life threatening or disabling ( 2 )  
Grade 5 - Death ( \* 3 )

\*Complete and key Death Report (DR) form.

25. Did the event result in any of the following (check all that apply)

a. Emergency department/urgent care visit: ( 1 )  
b. Hospital admission or prolonged hospital stay: ( 1 )  
c. Significant or persistent disability: ( 1 )  
d. Congenital anomaly or birth defect: ( 1 )  
e. Death: ( 1 )  
f. Other significant hazard or harm: ( 1 )

\_\_\_\_\_  
specify  
g. None of the above ( 1 )

**D. Association with NASH CRN**

26. Is the adverse event due to a prior NASH CRN study drug or intervention from any source (*PIVENS or TONIC trials, ancillary study, pilot or feasibility study*):

- Definitely yes ( 1 )
- Probably yes ( 2 )
- Possibly yes ( 3 )
- Probably no ( 4 )
- Definitely no ( 5 )

27. Current status of adverse event (*check only one*):

- Resolved ( 1 )
  - Active ( 2 )
  - Unknown ( 3 )
29.

28. Date resolved:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

29. Additional comments on adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

30. Study Physician PIN: \_\_\_\_\_

31. Study Physician signature: \_\_\_\_\_

32. Clinical Coordinator PIN: \_\_\_\_\_

33. Clinical Coordinator signature: \_\_\_\_\_

34. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Key this form and send the DCC:*

- (1) A copy of this form
- (2) A narrative description of the event
- (3) A copy of your report to your IRB.

## NAFLD Database

## BC - Blood Collection for DNA

**Purpose:** Document the collection of whole blood for shipment to NIDDK Genetics Repository at Rutgers University for DNA extraction. Complete this form only if the patient signed the consent for genetic research.

**When:** Visit s2 and as needed during followup (during followup, use the visit code of the followup visit that is open).

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection of whole blood.

**Instructions:** (1) Fill two 10 mL EDTA vacutainer tubes with whole blood. (2) Pack and ship the whole blood in the EDTA tubes to the NIDDK Genetics Repository at Rutgers University on the same day blood is collected. Ship at ambient room temperature. Ship whole blood in the specimen shippers supplied by the NIDDK Genetics Repository.

**A. Center, patient and visit identification**

1. Center code: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year


5. Visit code: \_\_\_\_\_

6. Form & revision:  b c 1

7. Study: NAFLD Database  1

**B. Check on consent**

8. Did the patient/parent consent/assent to blood draw for DNA extraction:

Yes (  1  )      No (  \* 2  )  


\* You cannot proceed until you get consent.

**C. Specimen for Genetics Repository**

Attach ID labels to two 10mL EDTA tubes and fill each with whole blood; invert each tube gently 6 times to mix blood with additives; keep tubes at room temperature until the same day shipment to the NIDDK Genetics Repository.

9. Was blood collected for the NIDDK Genetics Repository:

Yes (  1  )

No, (specify): 10. (  2  )

\_\_\_\_\_ specify

14. \_\_\_\_\_

**10. Date and time of blood draw**

a. Date: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

b. Time: \_\_\_\_\_ : \_\_\_\_\_ (  1  ) (  2  )  
 hour minute am pm

11. Number of 10 mL EDTA tubes: \_\_\_\_\_

**12. Form copy of tube labels:**

NAFLD DB Form BC
Pt: ccc- 9999, xyz
Gender
Age, yrs.: XX

**13. Phlebotomist:**

\_\_\_\_\_ print name

**D. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
 \_\_\_\_\_

16. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## NAFLD Database

## BD - Food Questionnaire Documentation

**Purpose:** To document completion of the age appropriate food questionnaire.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form for patients age 2 or older. This form documents completion of the age appropriate food questionnaire (patients age 18 or older complete the Block Food Questionnaire; patients age 2 to 17 complete the Brief Food Questionnaire).

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:  b d 2

7. Study: NAFLD Database  1

### B. Administration of food questionnaire

8. Date food questionnaire booklet was completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*NOTE: The visit s2 food questionnaire may not have been completed more than 8 weeks (56 days) prior to registration for the Database.*

9. Which food questionnaire was completed (check only one):

Block 98 (  )

Brief Food Questionnaire  (  )

10. How was the Brief Food Questionnaire completed:

Self administered by patient/parent (  )

Interview in English (  )

Interview with translator (  )

11. Who was the respondent (check all that apply)

a. Patient: (  )

b. Patient's mother or female guardian: (  )

c. Patient's father or male guardian: (  )

d. Other (specify): (  )

\_\_\_\_\_ specify

12. Form copy of label applied to food questionnaire:

```

  [ - - - - - ]
  | NAFLD DB Form BD |
  | Pt: 9999,xyz |
  | Visit: vvvv |
  | Date: _____ |
  | - - - - - ]
  
```

### C. Administrative information

13. Clinical Coordinator PIN: \_\_\_\_\_

14. Clinical Coordinator signature:  
 \_\_\_\_\_

15. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## NAFLD Database

## BG - Baseline History

**Purpose:** To collect baseline history information about the patient.

**When:** Visit s1.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Respondent:** Patient or patient's parent.

**Instructions:** Collect information by interview or chart review. If  is checked for an item, use caution. If the physician agrees with the diagnosis, the patient is ineligible for the NAFLD Database. If  is checked for an item, the patient is ineligible and cannot enroll in the NAFLD Database. The form should not be keyed to the data system, but the form should be retained; set aside with forms for other patients who started screening, but were found to be ineligible.

### A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                s 1 \_\_\_\_\_

6. Form & revision:           b g 3

7. Study:                       NAFLD Database 1

### B. Family history

8. Do any of the patient's first degree relatives (parent, brother, sister, child) have liver disease:

( Yes )                   ( No )  
 (    1 )                   (    2 )

**10.** \_\_\_\_\_

9. If yes, characterize the liver disease(s) (*check all that apply*)

a. Alcohol related liver disease:                   (    1 )

b. Viral hepatitis:                                   (    1 )

c. Alpha-1 antitrypsin deficiency:               (    1 )

d. Wilson's disease:                               (    1 )

e. Glycogen storage disease:                   (    1 )

f. Iron overload:                                   (    1 )

g. Fatty liver disease (*NAFLD, NASH*):           (    1 )

h. Primary liver cancer:                         (    1 )

i. Type of liver disease unknown:             (    1 )

j. Other (*specify*):                               (    1 )

\_\_\_\_\_ specify

10. Do any of the patient's first degree relatives (parent, brother, sister, child) have cirrhosis:

( Yes )                   ( No )  
 (    1 )                   (    2 )

**12.** \_\_\_\_\_

11. If yes, is the cause of the cirrhosis unknown (cryptogenic):

( Yes )                   ( No )  
 (    1 )                   (    2 )

12. Do any of the patient's first degree relatives (parent, brother, sister, child) have diabetes (Type 1 or Type 2):

Yes   (    1 )

No    (    2 )

Don't know                                       (    3 )

13. Do any of the patient's first degree relatives (parent, brother, sister, child) have obesity:

- Yes ( 1 )
- No ( 2 )
- Don't know ( 3 )

14. Do any of the patient's first degree relatives (parent, brother, sister, child) have atrophy of body fat:

- Yes ( 1 )
- No ( 2 )
- Don't know ( 3 )

15. Do any of the patient's first degree relatives (parent, brother, sister, child) have a problem with cholesterol or blood fat:

- Yes ( 1 )
- No ( 2 )
- Don't know ( 3 )

**C. NAFLD history**

16. Date patient was first diagnosed with fatty liver disease or cryptogenic cirrhosis:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

17. What prompted the evaluation for NAFLD, NASH, or cryptogenic cirrhosis (check all that apply)

- a. Symptoms for liver disease: ( 1 )
- b. Result of being evaluated for another illness: ( 1 )
- c. During a routine or insurance physical examination: ( 1 )
- d. Blood donation: ( 1 )
- e. Other (specify): ( 1 )

\_\_\_\_\_ specify

18. What procedure/tests supported this first diagnosis (check all that apply)

- a. Liver biopsy: ( 1 )
- b. Imaging studies (Ultrasound, CT, MRI): ( 1 )
- c. Elevated aminotransferases: ( 1 )
- d. Other (specify): ( 1 )

\_\_\_\_\_ specify

19. Does the patient have one or more liver biopsies done prior to registration in the Database that you want evaluated for the Database:

- Yes ( 1 )
- No ( 2 )

21. \_\_\_\_\_

20. Liver biopsy(s) prior to registration in the Database that you want evaluated

a. Date of most recent liver biopsy that you want evaluated for the Database (complete form SE [Most Recent Prior Liver Biopsy Materials Documentation] for this biopsy):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

b. Does the patient have another biopsy, older than the biopsy noted in item 20a, that you want evaluated for the Database:

Yes ( 1 ) No ( 2 )

21.

c. Date of next most recent liver biopsy that you want evaluated for the Database (complete form SF [Next Most Recent Prior Liver Biopsy Materials Documentation] for this biopsy):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

21. Will the patient have a biopsy during screening:

Yes ( \* 1 ) No ( 2 )

\*Complete the Liver Biopsy Materials Documentation (SD) form for this biopsy.

22. Has the patient had a liver imaging study (ultrasound, MRI, or CT scan) in the past year:

Yes ( \* 1 ) No ( 2 )

\*Complete the Liver Imaging Studies Report (IR) form.

**D. Weight history**

23. What was the patient's birthweight:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 lbs oz

24. Review flashcard 17. Which (picture) best describes your weight pattern over the past 5 years (check only one):

- Up and down, up and down ( 1 )
- Up gradually ( 2 )
- Up sharply (gained a lot in a brief interval) ( 3 )
- Down gradually ( 4 )
- Down sharply (lost a lot in a brief interval) ( 5 )
- No or minimal change ( 6 )

25. What is the patient's current weight (ask the patient for his/her weight):

\_\_\_\_ lbs

26. What is the most the patient has ever weighed:

\_\_\_\_ lbs

27. At what age did the patient weigh the most:

\_\_\_\_ age in years

28. Is the patient age 18 or older:

Yes ( 1 ) No ( 2 )

31.

29. What is the least the patient has ever weighed since age 18:

\_\_\_\_ lbs

30. At what age did the patient weigh the least since age 18:

\_\_\_\_ age in years

31. Does the patient weigh more than he/she did one year ago:

Yes ( 1 ) No ( 2 )

33.

32. How much more does the patient weigh now compared to one year ago:

\_\_\_\_ lbs

33. Does the patient weigh less than he/she did one year ago:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 35.

34. How much less does the patient weigh now compared to one year ago:

\_\_\_\_\_ lbs

35. Did the patient try to lose or gain weight:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 37.

36. Which did the patient try to do (*check only one*):

Gain weight ( 1 )  
 Lose weight ( 2 )

**E. Tobacco cigarette smoking history**

(*interview with patient; not interview with parent, not by chart review*)

37. Is the patient age 8 or older:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 43.

38. Have you ever smoked tobacco cigarettes:

Never ( 1 )  
 43.    
 In the past but not anymore ( 2 )  
 Currently smokes cigarettes ( 3 )

39. Did you smoke cigarettes regularly (*“No” means less than 20 packs of cigarettes in a lifetime or less than 1 cigarette a day for one year*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 43.

40. How old were you when you first started regular cigarette smoking:

\_\_\_\_\_ years

41. How old were you when you (last) stopped smoking cigarettes (*code as “n” if you didn’t stop smoking*):

\_\_\_\_\_ years

42. On the average of the entire time you smoked cigarettes, how many cigarettes did you smoke per day:

\_\_\_\_\_ cigarettes/day

**F. Menstrual history**

43. Is the patient female:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

44. Has menarche occurred:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

45. What was the patient’s age at menarche:

\_\_\_\_\_ age in years

46. Characterize the menstrual history in the past 5 years (*check only one*):

Regular periods ( 1 )  
 Irregular periods ( 2 )  
 Rare periods ( 3 )  
 No periods ( 4 )

47. Is patient post-menopausal:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

48. What was the patient’s age at menopause:

\_\_\_\_\_ age in years

**G. Medical history** ( *means Caution; condition is exclusionary if study physician agrees with diagnosis*)

49. Has the patient ever been diagnosed with and treated for any of the following (*check all that apply; source of information can be interview and/or chart review*):

a. Diabetes type 1: ( 1 )  
 b. Diabetes type 2: ( 1 )  
 c. Gestational diabetes (*diabetes of pregnancy*): ( 1 )  
 d. Hepatitis B: ( 1 )







**51. Organ, limb, or bone marrow transplant**

a. Has the patient ever received a liver transplant:

( Yes ) ( No )  
 1  2

b. Has the patient ever received any other organ, limb, or bone marrow transplant:

( Yes ) ( No )  
 1  2

**52. Has the patient received total parenteral nutrition (TPN) in the past 2 years:**

( Yes ) ( No )  
 1  2

**53. Is the patient currently undergoing evaluation for bariatric surgery:**

( Yes ) ( No )  
 1  2

**H. Medication use****54. Has the patient used any antidiabetic medications in the past 6 months (check all that apply):**

- a. Acarbose (Precose): (  )
- b. Acetohexamide (Dymelor): (  )
- c. Chlorpropamide (Diabinese): (  )
- d. Glimepiride (Amaryl): (  )
- e. Glipizide (Glucotrol, Glucotrol XL): (  )
- f. Glyburide (Micronase, DiaBeta, Glynase): (  )
- g. Insulin: (  )
- h. Metformin (Glucophage, Glucophage XR): (  )
- i. Miglitol (Glycet): (  )
- j. Nateglinide (Starlix): (  )
- k. Pioglitazone (Actos): (  )
- l. Repaglinide (Prandin): (  )
- m. Rosiglitazone (Avandia): (  )
- n. Tolazamide (Tolinase): (  )
- o. Tolbutamide (Orinase): (  )
- p. Other, (specify): (  )
- 
- q. None of the above: (  )

**55. Has the patient taken any alcohol abuse (dependence or withdrawal) medications in the past 6 months (check all that apply):**

- a. Chlordiazepoxide (Librium): (  )
- b. Clorazepate dipotassium (Tranxene): (  )
- c. Diazepam (Valium): (  )
- d. Disulfiram (Antabuse): (  )
- e. Hydroxyzine pamoate (Vistaril): (  )
- f. Naltrexone hydrochloride (Revia): (  )
- g. Other, (specify): (  )
- 
- h. None of the above: (  )

**56. Has the patient taken any antihyperlipidemic medications in the past 6 months (check all that apply):**

- a. Atorvastatin (Lipitor): (  )
- b. Colestipol hydrochloride (Colestid): (  )
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
- d. Gemfibrozil (Gen-Fibro, Lopid): (  )
- e. Fenofibrate (Tricor): (  )
- f. Fluvastatin sodium (Lescol): (  )
- g. Lovastatin (Mevacor): (  )
- h. Nicotinic acid (Niaspan): (  )
- i. Pravastatin sodium (Pravachol): (  )
- j. Rosuvastatin (Crestor): (  )
- k. Simvastatin (Zocor): (  )
- l. Other, (specify): (  )
- 
- m. None of the above: (  )

**57.** Has the patient taken any antiobesity medications in the past 6 months (*check all that apply*):

- a.** Dexfenfluramine hydrochloride (Redux): (  )
- b.** Fenfluramine hydrochloride (Pondimin): (  )
- c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d.** Orlistat (Xenical): (  )
- e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
- f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
- h.** Other, (*specify*): (  )
- 
- i.** Other, (*specify*): (  )
- 
- j.** None of the above: (  )

**58.** Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 6 months (*check all that apply*):

- a.** Acetaminophen (Tylenol): (  )
- b.** Aspirin - 325 mg: (  )
- c.** Aspirin - 81 mg: (  )
- d.** Celecoxib (Celebrex): (  )
- e.** Ibuprofen (Advil, Motrin): (  )
- f.** Indomethacin (Indocin): (  )
- g.** Naproxen (Aleve, Naprosyn): (  )
- h.** Rofecoxib (Vioxx): (  )
- i.** Other, (*specify*): (  )
- 
- j.** Other, (*specify*): (  )
- 
- k.** Other, (*specify*): (  )
- 
- l.** None of the above: (  )

**59.** Has the patient taken any strong opiates containing acetaminophen medication in the past 6 months (*check all that apply*):

- a.** Darvocet: (  )
- b.** Esgic - Plus: (  )
- c.** Fioricet: (  )
- d.** Lorcet: (  )
- e.** Lortab: (  )
- f.** Norco: (  )
- g.** Percocet: (  )
- h.** Talacen: (  )
- i.** Tylenol #3: (  )
- j.** Tylenol #4: (  )
- k.** Tylox: (  )
- l.** Vicodin: (  )
- m.** Wygesic: (  )
- n.** Other, (*specify*): (  )
- 
- o.** None of the above: (  )

**60.** Has the patient taken any histamine H2 receptor antagonists/other gastrointestinal medications in the past 6 months (*check all that apply*):

- a.** Cimetidine (Tagamet): (  )
- b.** Esomeprazole magnesium (Nexium): (  )
- c.** Famotidine (Pepcid): (  )
- d.** Lansoprazole (Prevacid): (  )
- e.** Nizatidine (Axid): (  )
- f.** Omeprazole (Prilosec): (  )
- g.** Ranitidine (Zantac): (  )
- h.** Ranitidine bismuth citrate (Tritec): (  )
- i.** Antacids, (*specify*): (  )
- 
- j.** Other, (*specify*): (  )
- 
- k.** Other, (*specify*): (  )
- 
- l.** None of the above: (  )

**61.** Has the patient taken any anticoagulant/antiplatelet medications in the past 6 months (*check all that apply*):

- a.** Clopidogrel (Plavix): (  )
- b.** Dipyridamole: (  )
- c.** Heparin: (  )
- d.** Ticlopidine (Ticlid): (  )
- e.** Warfarin (Coumadin): (  )
- f.** Other, (*specify*): (  )
- 
- g.** Other, (*specify*): (  )
- 
- h.** None of the above: (  )

**62.** Has the patient taken any systemic corticosteroids in the past 6 months (*check all that apply*):

- a.** Betamethasone sodium (Celestone): (  )
- b.** Cortisol: (  )
- c.** Cortisone: (  )
- d.** Dexamethasone (Decadron): (  )
- e.** Hydrocortisone (Hydrocortone): (  )
- f.** Methylprednisolone (Solu-Medrol): (  )
- g.** Prednisolone (Prelone): (  )
- h.** Prednisone: (  )
- i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
- j.** Other, (*specify*): (  )
- 
- k.** Other, (*specify*): (  )
- 
- l.** None of the above: (  )

**63.** Has the patient taken any cardiovascular or antihypertensive medications in the past 6 months (*check all that apply*):

- a.** Amiodarone (Pacerone): (  )
- b.** Amlodipine besylate (Norvasc): (  )
- c.** Atenolol (Tenormin): (  )
- d.** Benazepril (Lotensin): (  )
- e.** Captopril (Capoten): (  )
- f.** Clonidine (Catapres): (  )
- g.** Digoxin (Lanoxin): (  )
- h.** Diltiazem (Cardizem): (  )
- i.** Doxazosin (Cardura): (  )
- j.** Enalapril (Vasotec): (  )
- k.** Felodipine (Plendil): (  )
- l.** Furosemide (Lasix): (  )
- m.** Hydrochlorothiazide (Esidrix, HydroDIURIL): (  )
- n.** Hydrochlorothiazide + triamterene (Dyazide): (  )
- o.** Lisinopril (Prinivil, Zestril): (  )
- p.** Losartan potassium (Cozaar): (  )
- q.** Losartan potassium with hydrochlorothiazide (Hyzaar): (  )
- r.** Metoprolol (Lopressor): (  )
- s.** Nifedipine (Adalat, Procardia): (  )
- t.** Perhexiline maleate: (  )
- u.** Propranolol (Inderal): (  )
- v.** Quinapril (Accupril): (  )
- w.** Terazosin (Hytrin): (  )
- x.** Timolol maleate (Blocadren): (  )
- y.** Valsartan (Diovan): (  )
- z.** Verapamil (Calan): (  )
- aa.** Other, (*specify*): (  )
- 
- ab.** Other, (*specify*): (  )
- 
- ac.** None of the above: (  )

- 64.** Has the patient taken any estrogen, progestin, hormone replacement therapy, or selective estrogen receptor modulators in the past 6 months (*check all that apply*):
- a.** Conjugated estrogen (Premarin/Prempro): (  )
- b.** Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
- c.** Esterified estrogen (Estratab, Menest): (  )
- d.** Estradiol (Estrace): (  )
- e.** Ethinyl estradiol (Estinyl): (  )
- f.** Fluoxymesterone (Android-F, Halotestin): (  )
- g.** Levonorgestrel (Norplant): (  )
- h.** Medroxyprogesterone (Cycrin, Provera): (  )
- i.** Megestrol (Megace): (  )
- j.** Methyltestosterone (Android): (  )
- k.** Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): (  )
- l.** Norethindrone (Micronor): (  )
- m.** Norgestrel (Ovrette): (  )
- n.** Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
- o.** Oxandrolone (Oxandrin): (  )
- p.** Oxymetholone (Anadrol): (  )
- q.** Progesterone (Prometrium): (  )
- r.** Raloxifene (Evista): (  )
- s.** Tamoxifen (Nolvadex): (  )
- t.** Other, (*specify*): (  )
- \_\_\_\_\_
- u.** Other, (*specify*): (  )
- \_\_\_\_\_
- v.** None of the above: (  )
- 65.** Has the patient taken any allergy or asthma medications in the past 6 months (*check all that apply*):
- a.** Albuterol: (  )
- b.** Beclomethasone dipropionate (Beclivent, Vanceril): (  )
- c.** Budesonide (Pulmicort, Rhinocort): (  )
- d.** Fluticasone propionate (Flonase, Flovent): (  )
- e.** Loratadine (Claritin): (  )
- f.** Mometasone furoate (Nasonex): (  )
- g.** Triamcinolone acetonide (Azmacort, Nasacort): (  )
- h.** Other, (*specify*): (  )
- \_\_\_\_\_
- i.** Other, (*specify*): (  )
- \_\_\_\_\_
- j.** None of the above: (  )
- 66.** Has the patient taken a multivitamin regularly in the past 6 months:
- ( Yes ) ( No )  
(  ) (  )
- 67.** Has the patient taken vitamins other than multivitamins in the past 6 months:
- ( Yes ) ( No )  
(  ) (  )
- 69.**
- 68.** Which vitamins has the patient taken (*check all that apply*):
- a.** Vitamin B (any type): (  )
- b.** Vitamin C: (  )
- c.** Vitamin D: (  )
- d.** Vitamin E: (  )
- e.** Other, (*specify*): (  )
- \_\_\_\_\_

69. Has the patient taken any supplements in the past 6 months (*check all that apply*):

- a. Alpha-lipoic acid: (  )
- b. Alpha-tocopherol: (  )
- c. Beta-carotene: (  )
- d. Betaine (Cystadane): (  )
- e. Calcium (any form): (  )
- f. Carnitine (any form): (  )
- g. Chondroitin (any form): (  )
- h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- i. Cod liver oil: (  )
- j. Coenzyme Q: (  )
- k. Dichloroacetate: (  )
- l. Echinacea: (  )
- m. Fish oil (any form): (  )
- n. Flax seed oil: (  )
- o. Garlic: (  )
- p. Ginkgo biloba: (  )
- q. Glucosamine (any form): (  )
- r. Lecithin: (  )
- s. Magnesium: (  )
- t. Milk thistle: (  )
- u. N-acetyl-cysteine: (  )
- v. Potassium (any form): (  )
- w. S-adenylmethionine (SAM-e): (  )
- x. Saw palmetto: (  )
- y. Selenium: (  )
- z. St. John's Wort: (  )
- aa. Taurine: (  )
- ab. Zinc picolinate: (  )
- ac. Other, (*specify*): (  )
- \_\_\_\_\_
- ad. Other, (*specify*): (  )
- \_\_\_\_\_
- ae. None of the above: (  )

70. Has patient taken any of the following medications or other supplements/medications in the past 6 months (*record all other supplements/medications*):

- a. Demeclocycline (Declomycin): (  )
- b. Divalproex (Depakote): (  )
- c. Doxycycline (Monodox): (  )
- d. Isotretinoin (Accutane): (  )
- e. Levothyroxine (Levoxyl, Synthroid): (  )
- f. Liothyronine (Cytomel): (  )
- g. Methotrexate (Rheumatrex): (  )
- h. Minocycline (Dynacin, Minocin): (  )
- i. Oxytetracycline (Terramycin): (  )
- j. Penicillamine (Cuprimine, Depen): (  )
- k. Tetracycline (Achromycin): (  )
- l. Trientine hydrochloride (Syprine): (  )
- m. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): (  )
- n. Valproate sodium (Depacon): (  )
- o. Valproic acid (Depakene): (  )
- p. Other, (*specify*): (  )
- \_\_\_\_\_
- q. Other, (*specify*): (  )
- \_\_\_\_\_
- r. Other, (*specify*): (  )
- \_\_\_\_\_
- s. Other, (*specify*): (  )
- \_\_\_\_\_
- t. Other, (*specify*): (  )
- \_\_\_\_\_
- u. None of the above: (  )

**I. Administrative information**

71. Study Physician PIN:        \_\_\_\_\_

72. Study Physician signature:  
\_\_\_\_\_

73. Clinical Coordinator PIN:        \_\_\_\_\_

74. Clinical Coordinator signature:  
\_\_\_\_\_

75. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
          day                    mon                    year





12. Number of SST serum separator tubes (red-top) tubes: \_\_\_\_\_

18. Attach duplicate cryovial labels (use aliquot #00 labels which are located in the first row of labels in the set):

13. Attach duplicate SST serum separator tube labels:

NAFLD DB Serum 1
Pt: 9999, xyz
Visit: vvvv
BP
Date: _____

NAFLD DB Serum 2
Pt: 9999, xyz
Visit: vvvv
BP
Date: _____

NAFLD DB Serum 3
Pt: 9999, xyz
Visit: vvvv
BP
Date: _____

NAFLD DB Serum 4
Pt: 9999, xyz
Visit: vvvv
BP
Date: _____

Serum aliquot #00 label

Plasma aliquot #00 label

14. Phlebotomist: \_\_\_\_\_  
print name

19. Technician: \_\_\_\_\_  
print name

**C. Aliquots for plasma and serum**

*Pour 0.5 mL of plasma into each of up to six 2.0 mL pre-labeled cryovials and pour 0.5 mL of serum into each of forty 2.0 mL pre-labeled cryovials.*

**D. Freezing aliquots**

*Freeze plasma and serum aliquots immediately at -70°C or -20°C. If frozen at -20°C, the cryovials must be transferred to -70°C within 24 hours. Batch ship monthly to the NIDDK BioSample Repository at Fisher BioServices.*

15. Date and time of separation into plasma and serum aliquots

a. Date: \_\_\_\_\_  
day mon year

b. Time: \_\_\_\_\_ ( 1 ) ( 2 )  
hour minute am pm

20. Date and time cryovials frozen in -70°C or -20°C

a. Date: \_\_\_\_\_  
day mon year

b. Time: \_\_\_\_\_ ( 1 ) ( 2 )  
hour minute am pm

16. Number of aliquots for plasma: \_\_\_\_\_

21. Number of cryovials frozen: \_\_\_\_\_

17. Number of aliquots for serum: \_\_\_\_\_

22. Technician: \_\_\_\_\_  
print name

**E. Administrative information**

23. Clinical Coordinator PIN: \_\_\_\_\_

24. Clinical Coordinator signature: \_\_\_\_\_

25. Date form reviewed: \_\_\_\_\_  
day mon year



## NAFLD Database

## CO - Database Closeout

**Purpose:** To temporarily close out NAFLD Database participation for a patient enrolled in the NAFLD Database in order for the patient to be randomized in another NASH CRN study. Once this form is keyed, the patient is exempt from completing visits in the NAFLD Database.

**When:** Ideally, upon randomization of the NAFLD Database patient into another NASH CRN study, but this form can be completed at any time. Use visit code n.

**Administered by:** Clinical coordinator.

**Respondent:** None.

**Instructions:** This form must be completed and keyed for patients enrolled in the NAFLD Database who are subsequently randomized in PIVENS, TONIC, or other NASH CRN study. Until it is keyed, the patient will remain on the active patient list, meaning that all Database visits are due for the patient. The keying of this form will turn off the visit windows for the NAFLD Database. If the patient is not randomized in the new study, this form should not be keyed. If it has already been keyed, it should be deleted.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date form in initiated; effective date for suspension of visit completion*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code: n \_\_\_\_\_

6. Form & revision: c o 1

7. Study: NAFLD Database 1

## C. Administrative information

10. Clinical Coordinator PIN: \_\_\_\_\_

11. Clinical Coordinator signature:  
\_\_\_\_\_

12. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## B. New study information

8. Study that patient has been or will be randomized in (*check only one*):

PIVENS (  )

TONIC (  )

Other (*specify*): (  )

\_\_\_\_\_  
specify

9. Date of randomization in new study (*enter expected date if patient has not yet been randomized*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.

**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.

**By whom:** Data Coordinating Center staff.

**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c  r  1   6. Form and revision
- \_\_\_ 7. Study: **1**=Database; **2**=PIVENS; **3**=TONIC
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- 9. Sequence number for
  - \_\_\_ \_\_\_ ... a. H & E stained slide
  - \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
  - \_\_\_ \_\_\_ ... c. Iron stained slide
  - \_\_\_ \_\_\_ ... d. Other slide
- ..... Specify type of stain for other slide

**C. Administrative information**

- \_\_\_ \_\_\_ \_\_\_ 10. CC Initials
- \_\_\_ \_\_\_ \_\_\_ 11. CC Signature
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 12. Date form reviewed
- \_\_\_ 13. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_ \_\_\_ \_\_\_ 14. Followup with clinic (*Specify*):

15. Biopsy length (mm)

### H & E stain

16. Steatosis (assume macro, e.g., large and small droplet)

... a. Grade: **0**=<5%; **1**=5-33%; **2**=34-66%; **3**=>66%

... b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar

... c. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

17. Inflammation

... a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0**=0; **1**=<2 under 20x mag; **2**=2-4 under 20 mag; **3**=>4 under 20 mag

... b. Microgranulomas seen: **0**=No; **1**=Yes

... c. Large lipogranulomas seen: **0**=No; **1**=Yes

... d. Amount of portal, chronic inflammation: **0**=None; **1**=Mild; **2**=More than mild

18. Liver cell injury

... a. Ballooning: **0**=None; **1**=Few; **2**=Many

... b. Acidophil bodies: **0**=Rare/absent; **1**=Many

... c. Pigmented macrophages (*Kupffer cells*): **0**=Rare/absent; **1**=Many

... d. Megamitochondria: **0**=Rare/absent; **1**=Many

19. Mallory's hyaline: **0**=Rare/absent; **1**=Many

20. Glycogen nuclei: **0**=Rare/absent; **1**=Many

### Masson's trichrome stain

21. Fibrosis stage: **0**=None; **1a**=Mild, zone 3 perisinusoidal (*requires trichrome*);

**1b**=Moderate, zone 3, perisinusoidal (*does not require trichrome*); **1c**=Portal/periportal only;

**2**=Zone 3 and periportal, any combination; **3**=Bridging; **4**=Cirrhosis

### 22. Iron stain

... a. Hepatocellular iron grade: **0**=Absent or barely discernible, 40x → **GOTO item 22c**;

**1**=Barely discernible granules, 20x; **2**=Discrete granules resolved, 10x; **3**=Discrete granules resolved, 4x;  
**4**=Masses visible by naked eye

... b. Hepatocellular iron distribution: **0**=Periportal; **1**=Periportal and midzonal; **2**=Panacinar; **3**=Zone 3 or azonal

... c. Nonhepatocellular iron grade: **0**=None → **GOTO item 23**; **1**=Mild; **2**=More than mild

... d. Nonhepatocellular iron distribution: **0**=Large vessel endothelium only; **1**=Portal/fibrosis bands only, but more than just in large vessel endothelium; **2**=Intraparenchymal only; **3**=Both portal and intraparenchymal

23. Is this steatohepatitis? **0**=No; **1a**=Suspicious/borderline/indeterminate: Zone 3 pattern;

**1b**=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; **2**=Yes, definite

24. Is cirrhosis present? **0**=No → **GOTO item 27**; **1**=Yes

25. Is this cryptogenic cirrhosis: **0**=No → **GOTO item 27**; **1**=Yes

26. Features suggestive of steatohepatitis etiology for cryptogenic cirrhosis:

... a. Mallory's hyaline (*rule out cholate stasis*): **0**=Absent; **1**=Present

... b. Perisinusoidal fibrosis away from septa: **0**=Absent; **1**=Present

... c. Hepatocyte ballooning: **0**=Absent; **1**=Present

... d. Megamitochondria: **0**=Absent; **1**=Present

... e. Other notable findings: **0**=Absent; **1**=Present; Specify: \_\_\_\_\_

27. Other comments: \_\_\_\_\_

## NAFLD Database

## DR - Death Report

**Purpose:** To record the report of a patient's death.

**When:** As soon as clinic is notified of a patient's death.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete this form whenever the clinical center is informed of a patient's death. If the death is considered associated or possibly associated with participation in the NAFLD Database, complete a Serious Adverse Event (AN) form and follow the directions on Form AN for reporting a SAE in the NAFLD Database.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form is initiated (*date of notice*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: n \_\_\_\_\_

6. Form & revision: d r 1

7. Study: NAFLD Database 1

**10. Place of death:**

\_\_\_\_\_ city/state/country

\_\_\_\_\_ city/state/country

**11. Cause of death**

(*Study Physician: use whatever knowledge you have and your best medical judgment to best characterize the cause of death; check only one*):

Heart disease ( 1 )

Stroke ( 2 )

Liver disease ( 3 )

Malignancy ( 4 )

Other (*specify*): ( 5 )

\_\_\_\_\_ specify

\_\_\_\_\_ specify

Unknown ( 6 )

**B. Death information**

8. Date of death:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Source of death report (*check all that apply*):

a. Patient's family: ( 1 )

b. Friend: ( 1 )

c. Health care provider or NASH CRN staff: ( 1 )

d. Newspaper: ( 1 )

e. Funeral parlor/home: ( 1 )

f. Medical record: ( 1 )

g. Medical examiner: ( 1 )

h. Coroner: ( 1 )

i. Other (*specify*): ( 1 )

\_\_\_\_\_ other source

\_\_\_\_\_ other source

**C. Administrative information**

12. Study Physician PIN: \_\_\_\_\_

13. Study Physician signature: \_\_\_\_\_

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature: \_\_\_\_\_

16. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year



**11. Child-Pugh Turcotte score**

**a. Serum albumin subscore (from Form LR: > 3.5 g/dL=1, 2.8-3.5=2, < 2.8=3):** \_\_\_\_\_  
1-3


**b. Serum total bilirubin subscore (from Form LR: < 2.0 mg/dL=1, 2.0-3.0=2, > 3.0=3):** \_\_\_\_\_  
1-3

**c. INR subscore (from Form LR: < 1.7=1, 1.7-2.3=2, > 2.3=3):** \_\_\_\_\_  
1-3

**d. Ascites subscore (use all available information from all sources to score; None=1, Mild, easily managed=2, Severe, refractory=3):** \_\_\_\_\_  
1-3


**e. Hepatic encephalopathy subscore (use all available information from all sources to score; None=1, Mild, easily managed=2, Severe, refractory=3):** \_\_\_\_\_  
1-3

**f. Child-Pugh Turcotte score (sum items 11a + 11b + 11c + 11d + 11e):** \_\_\_\_\_  
5-15


**g. Evidence of advanced liver disease (Child-Pugh-Turcotte score at least 10):**  
(Yes) (No)  
( 1 ) ( 2 )  


**12. Do any of the patient's assessments show evidence of these medical exclusions**


**a. Evidence of chronic hepatitis B as marked by the presence of HBsAg in serum (patients with isolated anti-HBc are not excluded):**

(Yes) (No)  
( 1 ) ( 2 )  



**b. Evidence of chronic hepatitis C as marked by the presence of anti-HCV or HCV RNA in serum:**

(Yes) (No)  
( 1 ) ( 2 )  



**c. Low alpha-1-antitrypsin level and ZZ phenotype (physician judgment):**

(Yes) (No)  
( 1 ) ( 2 )  



**d. Wilson's disease:**

(Yes) (No)  
( 1 ) ( 2 )  



**e. Known glycogen storage disease:**

(Yes) (No)  
( 1 ) ( 2 )  



**f. Known dysbetalipoproteinemia:**

(Yes) (No)  
( 1 ) ( 2 )  



**g. Known phenotypic hemochromatosis (removal of > 4 g of iron by phlebotomy in an individual 18 or older):**

(Yes) (No)  
( 1 ) ( 2 )  


**h. Congenital hepatic fibrosis, polycystic liver disease:**

(Yes) (No)  
( 1 ) ( 2 )  


**i. Other metabolic/congenital liver disease:**

(Yes) (No)  
( 1 ) ( 2 )  




**j.** HIV infection or other systemic infectious disease:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**k.** Disseminated or advanced extrahepatic malignancy:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**l.** Other severe systemic illness that in the opinion of the investigator would interfere with completion of followup:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**13.** Do any of the patient's assessments show evidence of these histologic exclusions

**a.** Hepatic iron index > 1.9:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**b.** Prominent bile duct injury (*florid duct lesions or periductal sclerosis*) or bile duct paucity:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**c.** Chronic cholestasis:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**d.** Vascular lesions (*vasculitis, cardiac sclerosis, acute or chronic Budd-Chiari, hepatoportal sclerosis, peliosis*):

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**e.** Iron overload greater than 3+:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**f.** Zones of confluent necrosis, infarction, massive or sub-massive, pan-acinar necrosis:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**g.** Multiple epithelioid granulomas:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**14.** Is there any other condition or issue that, in the opinion of the investigator, would interfere with the patient's adherence to study requirements:

( Yes ) ( No )  
 ( 1 )  ( 2 )  
**Elig**

**D. Check on imaging and histologic criteria for inclusion in Database**

**15.** 5% steatosis on biopsy

**a.** Did at least one biopsy show at least 5% steatosis:

Yes ( 1 )  
 No ( 2 )  
 No biopsy available **16a.** ( 3 )

**b.** Date of most recent biopsy showing at least 5% steatosis:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

**16.** Cryptogenic cirrhosis on biopsy

**a.** Did at least one biopsy show cryptogenic cirrhosis:

Yes ( 1 )  
 No ( 2 )  
 No biopsy available **17.** ( 3 )

**b.** Date of most recent biopsy showing cryptogenic cirrhosis:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

17. Does the patient have an imaging study obtained in the past year that is suggestive of NAFLD (*physician judgment, criteria not specified*):

Yes ( 1 )      No ( 2 )  
 19.

18. Imaging studies suggestive of NAFLD (*check all that apply*)

- a. Upper abdominal ultrasound: ( 1 )
- b. Upper abdominal CT scan: ( 1 )
- c. Upper abdominal MRI: ( 1 )

19. Does the patient have an imaging study obtained in the past year compatible with cirrhosis (*small liver, nodularity, heterogeneous echo pattern*):

Yes ( 1 )      No ( 2 )  
 22.

20. Imaging studies suggestive of cirrhosis (*check all that apply*)

- a. Upper abdominal ultrasound: ( 1 )
- b. Upper abdominal CT scan: ( 1 )
- c. Upper abdominal MRI: ( 1 )

21. Does the patient have any of the following findings

- a. Imaging evidence of portal hypertension (*splenomegaly, portosystemic collaterals*): ( 1 )
- b. Albumin less than 3.5 g/dL: ( 1 )
- c. INR greater than 1.3: ( 1 )
- d. Platelet count less than 140,000 cells/uL: ( 1 )
- e. Esophageal or gastric varices on endoscopy: ( 1 )
- f. Ascites on physical exam or imaging study: ( 1 )
- g. None of the above: ( 1 )

**E. Diagnostic category for inclusion**

22. Diagnostic category for inclusion (*check only one*):

Definite NAFLD on most recent biopsy (*item 15a = Yes and date in item 15b is most recent biopsy date*) ( 1 )

Definite NAFLD on biopsy in the past but not on a subsequent biopsy (*item 15a = Yes and date in item 15b is not the most recent biopsy date*) ( 2 )

Definite cryptogenic cirrhosis on most recent biopsy (*item 16a = Yes and date in item 16b is most recent biopsy date*) ( 3 )

Suspected NAFLD (*item 17 = Yes and at least one of items 18a-c is checked*) ( 4 )

Suspected (clinical) cryptogenic cirrhosis (*item 19 = Yes and at least one of items 20a-c is checked and at least one of items 21a-f is checked*) ( 5 )

None of the above ( 6 )



**F. Eligibility check**

23. Was an ineligibility condition checked or an eligibility not ascertained in items 8-14 or item 22:

Yes ( 1 )      No ( 2 )  
 26.

*Instructions: Key visits s1 and s2 forms: RG and AD, BC, BD, BG, BP, CG, HF, IR, LD, LP/LQ, LR, LS, PA/MA, PE, PF, QF/PQ, PR, PS, PT, PV, PW, PY as appropriate. Run the Enrollment Task on your clinic data system.*

24. Were any STOP's or ineligible conditions other than "missing Form ED" identified by the Enrollment Task:

Yes ( 1 )  
 26.   
 No ( 2 )  
 Task not run because patient is known to be ineligible ( \* 3 )  
 26.

*\*You can skip running the Enrollment Task if you already know that the patient is ineligible; you must run the task to enroll the patient.*

25. Does the patient/parent still consent/assent to enrollment (you should ask the patient/parent to orally affirm his/her consent/assent):

Yes ( \* 1 )      No ( 2 )  
 27.

*\*Go to item 27 and complete this form. Then key this form and run the Enrollment Task on your clinic data system to enroll the patient.*

**H. Administrative information**

27. Study Physician PIN: \_\_\_\_\_

28. Study Physician signature: \_\_\_\_\_

29. Clinical Coordinator PIN: \_\_\_\_\_

30. Clinical Coordinator signature: \_\_\_\_\_

31. Date form reviewed: \_\_\_\_\_  
 day                      mon                      year

**G. Reasons for ineligibility for ineligible patients**

*NOTE: Complete this section for ineligible patients only.*

26. Reason for ineligibility (check all that apply)

- a. Reason covered in items 8-14, 22, or 25: ( 1 )
- b. Tests are outside time window and clinic chose not to repeat tests: ( 1 )
- c. Other reason not covered on this form (specify): ( 1 )



**11. Third child**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

Full ( 1 )

Not biological ( 2 )

*Skip to item 14 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**12. Fourth child**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

Full ( 1 )

Not biological ( 2 )

*Skip to item 14 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**13. Fifth child**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

Full ( 1 )

Not biological ( 2 )

*Call the DCC for instructions if there are more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**C. Study identifiers of sibling(s) of the index patient recorded in Section A**

**14. How many siblings of the index patient identified in item 2 are enrolled in NAFLD Database, PIVENS, and TONIC (if no siblings, code "0" and skip to item 20; call the DCC if more than 5 siblings are enrolled in NAFLD Database, PIVENS, and TONIC):**

0-5

If zero (0), then skip to item 20.

**15. First sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

Full ( 1 )

Half ( 2 )

Not biological ( 3 )

*Skip to item 20 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**16. Second sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

Full ( 1 )

Half ( 2 )

Not biological ( 3 )

*Skip to item 20 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**17. Third sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Skip to item 20 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**18. Fourth sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Skip to item 20 if there are no more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**19. Fifth sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Call the DCC for instructions if there are more children enrolled in NAFLD Database, PIVENS, or TONIC.*

**D. Study identifiers of the parents of the index patient identified in section A (call the DCC if more than 1 mother and/or 1 father are enrolled in NAFLD Database and PIVENS)**

**20. Mother of index patient**

a. Is the mother of the index patient enrolled in NAFLD Database or PIVENS):

- ( Yes 1 ) ( No 2 )

**21.**

b. Patient ID: \_\_\_\_\_

c. Patient code: \_\_\_\_\_

d. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Not biological ( 2 )

**21. Father of index patient**

a. Is the father of the index patient enrolled in NAFLD Database or PIVENS):

- ( Yes 1 ) ( No 2 )

**22.**

b. Patient ID: \_\_\_\_\_

c. Patient code: \_\_\_\_\_

d. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Not biological ( 2 )

**E. Administrative information**

**22. Clinical coordinator PIN:** \_\_\_\_\_

**23. Clinical coordinator signature:**  
\_\_\_\_\_

**24. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**12. Inflammation**

- a. Amount of lobular inflammation:**  
 combines mononuclear, fat  
 granulomas, and pmn foci:
- 0 ( 0 )  
 < 2 / 20x mag ( 1 )  
 2-4 / 20x mag ( 2 )  
 > 4 / 20x mag ( 3 )
- b. Amount of portal, chronic  
 inflammation:**
- None to minimal ( 0 )  
 Greater than minimal ( 1 )

**13. Hepatocellular ballooning:**

- None ( 0 )  
 Few ( 1 )  
 Many ( 2 )

**14. Is steatohepatitis present:**

- No ( 1 )  
 Suspicious/borderline/indeterminate ( 2 )  
 Yes, definite ( 3 )

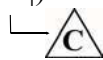
**D. Exclusion of other liver disease**

**15. Is there evidence of primary biliary  
 cirrhosis:**

- Yes ( 1 ) No ( 2 )

**16. Is there evidence of Wilson's disease:**

- Yes ( \* 1 ) No ( 2 )



\* Caution: Wilson's disease is exclusionary

**17. Features of chronic cholestatic liver  
 disease (check all that apply)**

- a. Bile duct loss/infiltration/sclerosis:** ( 1 )  
**b. Florid duct lesions:** ( 1 )  
**c. Cholate stasis:** ( 1 )  
**d. Copper deposition:** ( 1 )  
**e. Other (specify):** ( 1 )  
 \_\_\_\_\_  
**f. None:** ( 1 )

**18. Features of other forms of chronic liver  
 disease (check all that apply)**

- a. Vascular lesions of ALD/B-C/OVD:** ( 1 )  
**b. Inflammation suggestive of AIH,  
 HCV:** ( 1 )  
**c. Pigment suggestive of HH:** ( 1 )  
**d. Globules suggestive of A1AT:** ( 1 )  
**e. Hepatocellular changes suggestive of  
 HBV:** ( 1 )  
**f. Granulomas suggestive of sarcoid,  
 PBC, infection:** ( 1 )  
**g. Other (specify):** ( 1 )  
 \_\_\_\_\_  
**h. None:** ( 1 )

**E. Evaluation of cryptogenic cirrhosis**

**19. Is cirrhosis present:**

- Yes ( 1 ) No ( 2 )  
 22. \_\_\_\_\_

**20. In your opinion, is this cryptogenic  
 cirrhosis**

*(cirrhosis that fails to meet criteria for NAFLD  
 and without evidence of other form(s) of chronic  
 liver disease):*

- Yes ( 1 ) No ( 2 )  
 22. \_\_\_\_\_

**F. Other features**

**21. Other features (check all that apply)**

- a. Mallory's hyaline (r/o cholate stasis):** ( 1 )  
**b. Perisinusoidal fibrosis away from  
 septa:** ( 1 )  
**c. Hepatocyte ballooning:** ( 1 )  
**d. Megamitochondria:** ( 1 )  
**e. Other (specify):** ( 1 )  
 \_\_\_\_\_  
**f. None:** ( 1 )



**G. Other comments**

22. Other comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**H. Administrative information**

23. Study Pathologist PIN: \_\_\_\_\_

24. Study Pathologist signature:  
\_\_\_\_\_

25. Clinical Coordinator PIN: \_\_\_\_\_

26. Clinical Coordinator signature:  
\_\_\_\_\_

27. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

## NAFLD Database

## HF - Liver Biopsy Histology Findings

**Purpose:** Record results of histologic evaluation of slides from liver **biopsy done after registration in Database and before enrollment in Database.**

**When:** Baseline visit s1 if biopsy slides are available and adequate for scoring.

**By whom:** Study Pathologist at the NASH CRN clinical center (this is not the form used for central reading) and Clinical Coordinator.

**Instructions:** The Study Pathologist should complete this form using the institution's H & E slide and if available, the institution's Masson's trichrome slide. Upon completion of this form, the Study Pathologist should give the original HF form to the Clinical Coordinator. If fewer than 2 unstained slides are available for the biopsy, the institution's H & E and Masson's trichrome slides must be sent to the DCC for central pathology review. If 2 or more unstained slides are available for the biopsy, only the unstained slides need to be sent to the DCC. The Study Pathologist should forward the stained slides (if needed) and up to 10 unstained slides to the Clinical Coordinator for forwarding to the Data Coordinating Center.

**A. Center, patient and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of reading:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: s 1 \_\_\_\_\_

6. Form & revision: h f 1

7. Study: NAFLD Database 1

**B. Biopsy information**

8. Date this biopsy was performed (*obtained from surgical pathology report*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

9. What slides are to be used in this evaluation (*check all that apply*)

a. H & E: (  )

b. Masson's trichrome: (  )

**C. NAFLD evaluation (use H & E and Masson's trichrome slides only)**

10. Steatosis (*assume macro, e.g., large and small droplet*)

a. Grade:

< 5% (  )

5-33% (  )

34-66% (  )

> 66% (  )

b. Location:

Zone 3 (  )

Zone 1 (  )

Azonal (  )

Panacinar (  )

11. Fibrosis stage (*Masson's trichrome stain*)

0: None (  )

1a: Zone 3, perisinusoidal (requires trichrome) (  )

1b: Zone 3, perisinusoidal (easily seen on H&E) (  )

1c: Portal/periportal only (  )

2: Zone 3 and periportal, any combination (  )

3: Bridging (  )

4: Cirrhosis (  )

**12. Inflammation**

- a. Amount of lobular inflammation:**  
 combines mononuclear, fat  
 granulomas, and pmn foci:
- 0 ( 0 )
  - < 2 / 20x mag ( 1 )
  - 2-4 / 20x mag ( 2 )
  - > 4 / 20x mag ( 3 )
- b. Amount of portal, chronic  
 inflammation:**
- None to minimal ( 0 )
  - Greater than minimal ( 1 )

**13. Hepatocellular ballooning:**

- None ( 0 )
- Few ( 1 )
- Many ( 2 )

**14. Is steatohepatitis present:**

- No ( 1 )
- Suspicious/borderline/indeterminate ( 2 )
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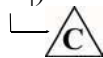
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**17. Features of chronic cholestatic liver  
 disease (check all that apply)**

- a. Bile duct loss/infiltration/sclerosis:** ( 1 )
  - b. Florid duct lesions:** ( 1 )
  - c. Cholate stasis:** ( 1 )
  - d. Copper deposition:** ( 1 )
  - e. Other (specify):** ( 1 )
- 
- f. None:** ( 1 )

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 disease (check all that apply)**

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  - b. Inflammation suggestive of AIH,  
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  - g. Other (specify):** ( 1 )
- 
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**E. Evaluation of cryptogenic cirrhosis**

**19. Is cirrhosis present:**

- Yes ( 1 )
- No ( 2 )

22.

**20. In your opinion, is this cryptogenic  
 cirrhosis**

*(cirrhosis that fails to meet criteria for NAFLD  
 and without evidence of other form(s) of chronic  
 liver disease):*

- Yes ( 1 )
- No ( 2 )

22.

**F. Other features**

**21. Other features (check all that apply)**

- a. Mallory's hyaline (r/o cholate stasis):** ( 1 )
  - b. Perisinusoidal fibrosis away from  
 septa:** ( 1 )
  - c. Hepatocyte ballooning:** ( 1 )
  - d. Megamitochondria:** ( 1 )
  - e. Other (specify):** ( 1 )
- 
- f. None:** ( 1 )

**G. Other comments**

22. Other comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**H. Administrative information**

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24. Study Pathologist signature:  
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25. Clinical Coordinator PIN: \_\_\_\_\_

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27. Date form reviewed:  
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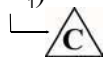
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- a. Vascular lesions of ALD/B-C/OVD:** ( 1 )
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- g. Other (specify):** ( 1 )

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**E. Evaluation of cryptogenic cirrhosis**

**19. Is cirrhosis present:**

- Yes ( 1 )
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*(cirrhosis that fails to meet criteria for NAFLD  
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- Yes ( 1 )
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22.

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**21. Other features (check all that apply)**

- a. Mallory's hyaline (r/o cholate stasis):** ( 1 )
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- e. Other (specify):** ( 1 )

---

- f. None:** ( 1 )

**G. Other comments**

22. Other comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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**E. Tobacco cigarette smoking**

16. Since the last visit, have you smoked tobacco cigarettes regularly (*“No” means smoked less than 1 day per week on average*):

Yes                      No  
 ( 1 )                      ( 2 )  
 19.

17. On average, how many days per week have you smoked cigarettes:

\_\_\_\_\_ /  
# days

18. On the days that you smoked, about how many cigarettes did you smoke per day:

\_\_\_\_\_ /  
# cigarettes per day

**F. Medical history**

19. Since the last visit, has the patient been diagnosed with or treated for any of the following (*check all that apply; source of information can be interview and/or chart review*)

- |   |       |   |       |
|---|-------|---|-------|
| a. Diabetes type 1:                                       | ( 1 ) | r. Hepatic encephalopathy:  | ( 1 ) |
| b. Diabetes type 2:                                       | ( 1 ) | s. Portal hypertension:   | ( 1 ) |
| c. Gestational diabetes ( <i>diabetes of pregnancy</i> ): | ( 1 ) | t. Hepatorenal syndrome:  | ( 1 ) |
| d. Hepatitis B:   | ( 1 ) | u. Hepatopulmonary syndrome:  | ( 1 ) |
| e. Hepatitis C:   | ( 1 ) | v. Short bowel syndrome:  | ( 1 ) |
| f. Autoimmune hepatitis:                                  | ( 1 ) | w. Hemophilia ( <i>bleeding disorder</i> ):                                     | ( 1 ) |
| g. Autoimmune cholestatic liver disorder (PBC or PSC):    | ( 1 ) | x. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: | ( 1 ) |
| h. Wilson’s disease:                                      | ( 1 ) | y. Endocrine disease ( <i>hormonal abnormality</i> ):                           | ( 1 ) |
| i. Alpha-1-antitrypsin (A1AT) deficiency:                 | ( 1 ) | z. Hepatocellular carcinoma:  | ( 1 ) |
| j. Iron overload:   | ( 1 ) | aa. Other malignancy ( <i>cancer</i> ):   | ( 1 ) |
| k. Drug induced liver disease:                            | ( 1 ) | ab. Peripheral neuropathy:  | ( 1 ) |
| l. Gilbert’s syndrome:                                    | ( 1 ) | ac. Seizure disorder or epilepsy:   | ( 1 ) |
| m. Esophageal or gastric varices on endoscopy:            | ( 1 ) | ad. Drug allergies:   | ( 1 ) |
| n. Bleeding from varices:                                 | ( 1 ) | ae. Hypothyroidism:   | ( 1 ) |
| o. Other gastrointestinal bleeding:                       | ( 1 ) | af. Hypertension:   | ( 1 ) |
| p. Ascites:   | ( 1 ) | ag. Cerebrovascular disease:  | ( 1 ) |
| q. Edema:   | ( 1 ) | ah. Dysbetalipoproteinemia:   | ( 1 ) |
|   |       | ai. Hyperlipidemia ( <i>high cholesterol, high triglycerides</i> ):             | ( 1 ) |
|   |       | aj. Pancreatitis:   | ( 1 ) |
|   |       | ak. Cholelithiasis:   | ( 1 ) |
|   |       | al. Coronary artery disease:  | ( 1 ) |
|   |       | am. Elevated uric acid such as gout:  | ( 1 ) |
|   |       | an. Kidney disease:   | ( 1 ) |
|   |       | ao. Polycystic ovary syndrome:  | ( 1 ) |
|   |       | ap. Sleep apnea ( <i>not breathing during sleep</i> ):                          | ( 1 ) |
|   |       | aq. Dermatologic disorders:   | ( 1 ) |
|   |       | ar. Myopathy:   | ( 1 ) |
|   |       | as. Myositis:   | ( 1 ) |
|   |       | at. Major depression:   | ( 1 ) |
|   |       | au. Schizophrenia:  | ( 1 ) |
|   |       | av. Bipolar disorder:   | ( 1 ) |
|   |       | aw. Obsessive compulsive disorder:  | ( 1 ) |
|   |       | ax. Severe anxiety or personality disorder:                                     | ( 1 ) |
|   |       | ay. None of the above:  | ( 1 ) |

20. Since the last visit, has the patient had surgery for any of the following (check all that apply)
- a. Stapling or banding of the stomach: (  )
- b. Jejunioileal (or other intestinal) bypass: (  )
- c. Biliopancreatic diversion: (  )
- d. Other GI or bariatric surgery (specify): (  )
- \_\_\_\_\_
- e. None: (  )

21. Since the last visit, has the patient received an organ, limb, or bone marrow transplant:
- (  )<sup>Yes</sup> (  )<sup>No</sup>

22. Since the last visit, has the patient received total parenteral nutrition (TPN):
- (  )<sup>Yes</sup> (  )<sup>No</sup>

23. Is the patient currently undergoing evaluation for bariatric surgery:
- (  )<sup>Yes</sup> (  )<sup>No</sup>

24. Since the last visit, has the patient been hospitalized:
- (  )<sup>Yes</sup> (  )<sup>No</sup>
25.

If Yes, specify reason:

\_\_\_\_\_ specify reason

25. Since the last visit, has the patient had any serious health problem not already reported:
- (  )<sup>Yes</sup> (  )<sup>No</sup>
26.

If Yes, specify:

\_\_\_\_\_ specify

## G. Medication use

26. Since the last visit, has the patient used any antidiabetic medications (check all that apply):
- a. Acarbose (Precose): (  )
- b. Acetohexamide (Dymelor): (  )
- c. Chlorpropamide (Diabinese): (  )
- d. Glimepiride (Amaryl): (  )
- e. Glipizide (Glucotrol, Glucotrol XL): (  )
- f. Glyburide (Micronase, DiaBeta, Glynase): (  )
- g. Insulin: (  )
- h. Metformin (Glucophage, Glucophage XR): (  )
- i. Miglitol (Glycet): (  )
- j. Nateglinide (Starlix): (  )
- k. Pioglitazone (Actos): (  )
- l. Repaglinide (Prandin): (  )
- m. Rosiglitazone (Avandia): (  )
- n. Tolazamide (Tolinase): (  )
- o. Tolbutamide (Orinase): (  )
- p. Other, (specify): (  )
- \_\_\_\_\_
- q. None of the above: (  )

27. Since the last visit, has the patient taken any alcohol abuse (dependence or withdrawal) medications (check all that apply):
- a. Chlordiazepoxide (Librium): (  )
- b. Clorazepate dipotassium (Tranxene): (  )
- c. Diazepam (Valium): (  )
- d. Disulfiram (Antabuse): (  )
- e. Hydroxyzine pamoate (Vistaril): (  )
- f. Naltrexone hydrochloride (Revia): (  )
- g. Other, (specify): (  )
- \_\_\_\_\_
- h. None of the above: (  )

28. Since the last visit, has the patient taken any antihyperlipidemic medications (*check all that apply*):

- a. Atorvastatin (Lipitor): (  )
- b. Colestipol hydrochloride (Colestid): (  )
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
- d. Gemfibrozil (Gen-Fibro, Lopid): (  )
- e. Fenofibrate (Tricor): (  )
- f. Fluvastatin sodium (Lescol): (  )
- g. Lovastatin (Mevacor): (  )
- h. Nicotinic acid (Niaspan): (  )
- i. Pravastatin sodium (Pravachol): (  )
- j. Rosuvastatin (Crestor): (  )
- k. Simvastatin (Zocor): (  )
- l. Other, (*specify*): (  )
- 

m. None of the above: (  )

29. Since the last visit, has the patient taken any antiobesity medications (*check all that apply*):

- a. Dexfenfluramine hydrochloride (Redux): (  )
- b. Fenfluramine hydrochloride (Pondimin): (  )
- c. Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d. Orlistat (Xenical): (  )
- e. Phendimetrazine tartrate (Adipost, Bontril): (  )
- f. Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g. Sibutramine hydrochloride monohydrate (Meridia): (  )
- h. Other, (*specify*): (  )
- 

i. Other, (*specify*): (  )

---

j. None of the above: (  )

30. Since the last visit, has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications (*check all that apply*):

- a. Acetaminophen (Tylenol): (  )
- b. Aspirin - 325 mg: (  )
- c. Aspirin - 81 mg: (  )
- d. Celecoxib (Celebrex): (  )
- e. Ibuprofen (Advil, Motrin): (  )
- f. Indomethacin (Indocin): (  )
- g. Naproxen (Aleve, Naprosyn): (  )
- h. Other, (*specify*): (  )
- 

i. Other, (*specify*): (  )

---

j. Other, (*specify*): (  )

---

k. None of the above: (  )

31. Has the patient taken any strong opiates containing acetaminophen medication in the past 6 months (*check all that apply*):

- a. Darvocet: (  )
- b. Esgic - Plus: (  )
- c. Fioricet: (  )
- d. Lorcet: (  )
- e. Lortab: (  )
- f. Norco: (  )
- g. Percocet: (  )
- h. Talacen: (  )
- i. Tylenol #3: (  )
- j. Tylenol #4: (  )
- k. Tylox: (  )
- l. Vicodin: (  )
- m. Wygesic: (  )
- n. Other, (*specify*): (  )
- 

o. None of the above: (  )

**32.** Since the last visit, has the patient taken any histamine H2 receptor antagonists/other gastrointestinal medications (*check all that apply*):

- a.** Cimetidine (Tagamet): (  )
- b.** Esomeprazole magnesium (Nexium): (  )
- c.** Famotidine (Pepcid): (  )
- d.** Lansoprazole (Prevacid): (  )
- e.** Nizatidine (Axid): (  )
- f.** Omeprazole (Prilosec): (  )
- g.** Ranitidine (Zantac): (  )
- h.** Ranitidine bismuth citrate (Tritec): (  )
- i.** Antacids, (*specify*): (  )
- \_\_\_\_\_
- j.** Other, (*specify*): (  )
- \_\_\_\_\_
- k.** Other, (*specify*): (  )
- \_\_\_\_\_
- l.** None of the above: (  )

**33.** Since the last visit, has the patient taken any anticoagulant/antiplatelet medications (*check all that apply*):

- a.** Clopidogrel (Plavix): (  )
- b.** Dipyridamole: (  )
- c.** Heparin: (  )
- d.** Ticlopidine (Ticlid): (  )
- e.** Warfarin (Coumadin): (  )
- f.** Other, (*specify*): (  )
- \_\_\_\_\_
- g.** Other, (*specify*): (  )
- \_\_\_\_\_
- h.** None of the above: (  )

**34.** Since the last visit, has the patient taken any systemic corticosteroids (*check all that apply*):

- a.** Betamethasone sodium (Celestone): (  )
- b.** Cortisol: (  )
- c.** Cortisone: (  )
- d.** Dexamethasone (Decadron): (  )
- e.** Hydrocortisone (Hydrocortone): (  )
- f.** Methylprednisolone (Solu-Medrol): (  )
- g.** Prednisolone (Prelone): (  )
- h.** Prednisone: (  )
- i.** Triamcinolone (Acetocort, Amcort, Aristocort, Kenacort): (  )
- j.** Other, (*specify*): (  )
- \_\_\_\_\_
- k.** Other, (*specify*): (  )
- \_\_\_\_\_
- l.** None of the above: (  )

35. Since the last visit, has the patient taken any cardiovascular/antihypertensive medications (*check all that apply*):

- a. Amiodarone (Pacerone): (  )
- b. Amlodipine besylate (Norvasc): (  )
- c. Atenolol (Tenormin): (  )
- d. Benazepril (Lotensin): (  )
- e. Captopril (Capoten): (  )
- f. Clonidine (Catapres): (  )
- g. Digoxin (Lanoxin): (  )
- h. Diltiazem (Cardizem): (  )
- i. Doxazosin (Cardura): (  )
- j. Enalapril (Vasotec): (  )
- k. Felodipine (Plendil): (  )
- l. Furosemide (Lasix): (  )
- m. Hydrochlorothiazide (Esidrix, HydroDIURIL): (  )
- n. Hydrochlorothiazide + triamterene (Dyazide): (  )
- o. Lisinopril (Prinivil, Zestril): (  )
- p. Losartan potassium (Cozaar): (  )
- q. Losartan potassium with hydrochlorothiazide (Hyzaar): (  )
- r. Metoprolol (Lopressor): (  )
- s. Nifedipine (Adalat, Procardia): (  )
- t. Perhexiline maleate: (  )
- u. Propranolol (Inderal): (  )
- v. Quinapril (Accupril): (  )
- w. Terazosin (Hytrin): (  )
- x. Timolol maleate (Blocadren): (  )
- y. Valsartan (Diovan): (  )
- z. Verapamil (Calan): (  )
- aa. Other, (*specify*): (  )
- 
- ab. Other, (*specify*): (  )
- 
- ac. None of the above: (  )

36. Since the last visit, has the patient taken any estrogen, progestin, hormone replacement therapy, or selective estrogen receptor modulators (*check all that apply*):

- a. Conjugated estrogen (Premarin/Prempro): (  )
- b. Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
- c. Esterified estrogen (Estratab, Menest): (  )
- d. Estradiol (Estrace): (  )
- e. Ethinyl estradiol (Estinyl): (  )
- f. Fluoxymesterone (Android-F, Halotestin): (  )
- g. Levonorgestrel (Norplant): (  )
- h. Medroxyprogesterone (Cycrin, Provera): (  )
- i. Megestrol (Megace): (  )
- j. Methyltestosterone (Android): (  )
- k. Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): (  )
- l. Norethindrone (Micronor): (  )
- m. Norgestrel (Ovrette): (  )
- n. Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
- o. Oxandrolone (Oxandrin): (  )
- p. Oxymetholone (Anadrol): (  )
- q. Progesterone (Prometrium): (  )
- r. Raloxifene (Evista): (  )
- s. Tamoxifen (Nolvadex): (  )
- t. Other, (*specify*): (  )
- 
- u. Other, (*specify*): (  )
- 
- v. None of the above: (  )

37. Since the last visit, has the patient taken any allergy or asthma medications *(check all that apply)*:

- a. Albuterol: (  )
- b. Beclomethasone dipropionate (Beclovent, Vanceryl): (  )
- c. Budesonide (Pulmicort, Rhinocort): (  )
- d. Fluticasone propionate (Flonase, Flovent): (  )
- e. Loratadine (Claritin): (  )
- f. Mometasone furoate (Nasonex): (  )
- g. Triamcinolone acetonide (Azmacort, Nasacort): (  )
- h. Other, *(specify)*: (  )
- 
- i. Other, *(specify)*: (  )
- 
- j. None of the above: (  )

38. Since the last visit, has the patient taken a multivitamin regularly:

(  )<sup>Yes</sup> (  )<sup>No</sup><sub>2</sub>

39. Since the last visit, has the patient taken vitamins other than multivitamins:

(  )<sup>Yes</sup> (  )<sup>No</sup><sub>2</sub>

41.

40. Which vitamins has the patient taken *(check all that apply)*

- a. Vitamin B (any type): (  )
- b. Vitamin C: (  )
- c. Vitamin D: (  )
- d. Vitamin E: (  )
- e. Other, *(specify)*: (  )
- 

41. Since the last visit, has the patient taken any supplements *(check all that apply)*:

- a. Alpha-lipoic acid: (  )
- b. Alpha-tocopherol: (  )
- c. Beta-carotene: (  )
- d. Betaine (Cystadane): (  )
- e. Calcium (any form): (  )
- f. Carnitine (any form): (  )
- g. Chondroitin (any form): (  )
- h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- i. Cod liver oil: (  )
- j. Coenzyme Q: (  )
- k. Dichloroacetate: (  )
- l. Echinacea: (  )
- m. Fish oil (any form): (  )
- n. Flax seed oil: (  )
- o. Garlic: (  )
- p. Ginkgo biloba: (  )
- q. Glucosamine (any form): (  )
- r. Lecithin: (  )
- s. Magnesium: (  )
- t. Milk thistle: (  )
- u. N-acetyl-cysteine: (  )
- v. Potassium (any form): (  )
- w. S-adenylmethionine (SAM-e): (  )
- x. Saw palmetto: (  )
- y. Selenium: (  )
- z. St. John's Wort: (  )
- aa. Taurine: (  )
- ab. Zinc picolinate: (  )
- ac. Other, *(specify)*: (  )
- 
- ad. Other, *(specify)*: (  )
- 
- ae. None of the above: (  )

42. Since the last visit, has patient taken any of the following medications or other supplements/medications (*record all other supplements/medications*):

- a. Demeclocycline (Declomycin): ( 1 )
- b. Divalproex (Depakote): ( 1 )
- c. Doxycycline (Monodox): ( 1 )
- d. Isotretinoin (Accutane): ( 1 )
- e. Levothyroxine (Levoxyl, Synthroid): ( 1 )
- f. Liothyronine (Cytomel): ( 1 )
- g. Methotrexate (Rheumatrex): ( 1 )
- h. Minocycline (Dynacin, Minocin): ( 1 )
- i. Oxytetracycline (Terramycin): ( 1 )
- j. Penicillamine (Cuprimine, Depen): ( 1 )
- k. Tetracycline (Achromycin): ( 1 )
- l. Trientine hydrochloride (Syprine): ( 1 )
- m. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): ( 1 )
- n. Valproate sodium (Depacon): ( 1 )
- o. Valproic acid (Depakene): ( 1 )
- p. Other, (*specify*): ( 1 )  
\_\_\_\_\_
- q. Other, (*specify*): ( 1 )  
\_\_\_\_\_
- r. Other, (*specify*): ( 1 )  
\_\_\_\_\_
- s. Other, (*specify*): ( 1 )  
\_\_\_\_\_
- t. Other, (*specify*): ( 1 )  
\_\_\_\_\_
- u. None of the above: ( 1 )

**H. Summary judgments about specific liver conditions** (*these judgments are to be made after all of the visit data are collected*)

43. Subscores to compute Child-Pugh Turcotte score
- a. Rate the patient's ascites (*check only one*):
    - None ( 1 )
    - Mild, easily managed ( 2 )
    - Severe, refractory ( 3 )
  - b. Rate the patient's hepatic encephalopathy (*check only one*):
    - None ( 1 )
    - Mild, easily managed ( 2 )
    - Severe, refractory ( 3 )

**I. Administrative information**

44. Study Physician PIN: \_\_\_\_\_
45. Study Physician signature: \_\_\_\_\_
46. Clinical Coordinator PIN: \_\_\_\_\_
47. Clinical Coordinator signature: \_\_\_\_\_
48. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year





- 15.** Is the event due to the vitamin E-series study drug:
- Definitely yes ( 1 )
  - Probably yes ( 2 )
  - Possibly yes ( 3 )
  - Probably no ( 4 )
  - Definitely no ( 5 )

- 16.** Is the event associated with prior TONIC study drug use:

Yes ( 1 )      No ( 2 )  
**19.**

- 17.** Is the event due to the metformin-series study drug:
- Definitely yes ( 1 )
  - Probably yes ( 2 )
  - Possibly yes ( 3 )
  - Probably no ( 4 )
  - Definitely no ( 5 )

- 18.** Is the event due to the vitamin E-series study drug:
- Definitely yes ( 1 )
  - Probably yes ( 2 )
  - Possibly yes ( 3 )
  - Probably no ( 4 )
  - Definitely no ( 5 )

- 19.** Nature of event (*check all that apply*)
- a. General anesthesia: ( 1 )
  - b. Medication related event: ( 1 )
  - c. Study procedure related event: ( 1 )
  - d. Drug interactions: ( 1 )
  - e. Worsening of a co-morbid illness: ( 1 )
  - f. Patient reported symptom of hepatotoxicity: ( 1 )
  - g. Hypoglycemia: ( 1 )
  - h. New-onset diabetes: ( 1 )
  - i. Pregnancy (*patient*): ( 1 )
  - j. Other (*specify*): ( 1 )

**20.** Describe event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- 21.** Short name for event if applicable (*short names for AEs are listed in the CTCAE v3.0 document available at [www.nashcrn.com](http://www.nashcrn.com); click on Documents and then click on General Documents*):

Not applicable ( 0 )

- 22.** Severity grade (*severity grades are listed in the CTCAE v3.0 document available at [www.nashcrn.com](http://www.nashcrn.com); click on Documents and then click on General Documents; use Serious Adverse Event Report (AN) to report serious and unexpected adverse events or call the DCC if unsure what to do:*

Not applicable ( 0 )

Grade 1 - Mild ( 1 )

Grade 2 - Moderate ( 2 )

Grade 3 - Severe ( 3 )

Grade 4 - Life threatening or disabling ( 4 )

Grade 5 - Death ( \* 5 )

*\*Complete and key Death Report (DR) form.*

- 23.** Date event resolved (*enter n if event is not yet resolved*):

\_\_\_\_\_  
 day                      mon                      year

**24.** What action was taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

25. Other comments on event:

---

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**E. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Study Physician PIN: \_\_\_\_\_

29. Study Physician signature:  
\_\_\_\_\_

30. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

*Key this form and fax the DCC (Attention: Aynur Ünalp-Arida) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious events so that we assure appropriate and timely study wide review. The received reports will be reviewed by Jeanne Clark, the Safety Officer, for appropriate further review by the Steering Committee and Data and Safety Monitoring Board.*



**C. Upper abdominal CT scan**

**11.** Did the patient have an upper abdominal CT scan in the past year (*screening*)/since the last visit (*followup*):

Yes                      No  
 (  1 )              (  2 )  
**14.**

**12.** Date of most recent upper abdominal CT scan:

\_\_\_\_\_  
 day                      mon                      year

**13.** Findings suggestive of NAFLD, cryptogenic cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: (  1 )
- b. Cirrhosis: (  1 )
- c. Hepatomegaly: (  1 )
- d. Hepatic mass: (  1 )
- e. Hepatic hemangioma: (  1 )
- f. Hepatic cyst: (  1 )
- g. Intrahepatic biliary dilatation: (  1 )
- h. Extrahepatic biliary dilatation: (  1 )
- i. Gallstones/cholelithiasis: (  1 )
- j. Gall bladder polyps: (  1 )
- k. Cholecystectomy: (  1 )
- l. Splenomegaly: (  1 )
- m. Ascites: (  1 )
- n. Other features of portal hypertension (*specify*): (  1 )  
 \_\_\_\_\_  
 \_\_\_\_\_
- o. Other abnormality (*specify*): (  1 )  
 \_\_\_\_\_  
 \_\_\_\_\_
- p. None of the above: (  1 )

**D. Upper abdominal MRI**

**14.** Did the patient have an upper abdominal MRI in the past year (*screening*)/since the last visit (*followup*):

Yes                      No  
 (  1 )              (  2 )  
**17.**

**15.** Date of most recent upper abdominal MRI:

\_\_\_\_\_  
 day                      mon                      year

**16.** Findings suggestive of NAFLD, cryptogenic cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: (  1 )
- b. Cirrhosis: (  1 )
- c. Hepatomegaly: (  1 )
- d. Hepatic mass: (  1 )
- e. Hepatic hemangioma: (  1 )
- f. Hepatic cyst: (  1 )
- g. Intrahepatic biliary dilatation: (  1 )
- h. Extrahepatic biliary dilatation: (  1 )
- i. Splenomegaly: (  1 )
- j. Ascites: (  1 )
- k. Other features of portal hypertension (*specify*): (  1 )  
 \_\_\_\_\_  
 \_\_\_\_\_
- l. Other abnormality (*specify*): (  1 )  
 \_\_\_\_\_  
 \_\_\_\_\_
- m. None of the above: (  1 )

**E. Administrative information**

17. Study Physician PIN: \_\_\_\_\_

18. Study Physician signature:  
\_\_\_\_\_

19. Clinical Coordinator PIN: \_\_\_\_\_

20. Clinical Coordinator signature:  
\_\_\_\_\_

21. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## NAFLD Database

LD – Lifetime Drinking History  
(Skinner)

**Purpose:** To obtain quantitative indices of the patient's alcohol consumption patterns from the onset of regular drinking.

**When:** Visit s1. If more than one LD form is needed, use visit code "n" on the second LD form.

**Administered by:** Clinical Coordinator.

**Respondent:** Patient, 18 years of age or older, without help from spouse or family.

**Instructions:** In addition to actual consumption levels (quantity), attention is focused upon the frequency of use, variability in consumption, types of beverages, life events that mark a change in drinking pattern, solitary versus social drinking, and time of day when alcohol is consumed. Flash Card #15, Drink Equivalents, may be used with this interview.

The interviewer begins by recording the patient's alcohol consumption behavior during the first year that he/she drank on a regular basis (at least one drink per month). Then, the patient is asked to think of when his/her drinking behavior changed in any appreciable way. In a chronological fashion, the interviewer traces the patient's alcohol consumption behavior from the age of first regular drinking to the present. Flash Card #16, Patterns of Alcohol Intake, provides sample language for the interviewer. Each LD form allows for describing six drinking phases. Use a second LD form (visit code "n") if needed to describe additional drinking phases. If this is the second LD form, skip sections B and C and start with item 20.

The interview takes approximately 20 minutes to complete. It is best given after a reasonable degree of rapport has been established, whereby the patient will feel more at ease and talk openly. Other, considerable probing and cross-referencing of facts is necessary to help in accurate recall. All information should be recorded under the appropriate heading on the LD form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   1     d     1
7. Study: NAFLD Database   1

## B. Lifetime alcohol consumption

8. Over the course of your lifetime have you ever had at least one drink of alcohol, beer, liquor, wine, or wine coolers, per month during a 12-month time period, or at least three drinks per day for at least three consecutive days (over a regular period of time):

Yes ( 1 ) No ( 2 )  
 81. ←

**C. First phase**

**Read as written:** "Now, I am going to ask you about your drinking pattern during the first year that you began to have at least one drink per month until your drinking behavior was different in a significant way from this time."

9. How old were you when you began regular drinking:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

10. How old were you at the end of first stage:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

11. During the first stage, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

12. How many days per month would you generally drink at this level:

\_\_\_\_\_ # days

13. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

14. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

15. How would you rate your usual style of drinking during an average month (*check the appropriate category*);

- Abstinent ( 1)
- Occasional (*less than 15 days*) ( 2)
- Weekend mainly ( 3)
- Binge (*at least 3 days heavy drinking*) ( 4)
- Frequent (*15 days or more per month*) ( 5)

16. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1) ( 2)

**18.** ←

17. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1)	( 2)	( 3)
b. Work .....	( 1)	( 2)	( 3)
c. School .....	( 1)	( 2)	( 3)
d. Medical .....	( 1)	( 2)	( 3)
e. Residence .....	( 1)	( 2)	( 3)
f. Legal/jail .....	( 1)	( 2)	( 3)
g. Financial .....	( 1)	( 2)	( 3)
h. Peer group .....	( 1)	( 2)	( 3)
i. Drug abuse .....	( 1)	( 2)	( 3)
j. Treatment .....	( 1)	( 2)	( 3)
k. Death .....	( 1)	( 2)	( 3)
l. Emotional .....	( 1)	( 2)	( 3)

18. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

19. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"):

Morning	_____	_____	_____
		%	
Afternoon	_____	_____	_____
		%	
Evening	_____	_____	_____
		%	

**D. Subsequent phase**

20. **Read as written:** "We have just discussed your drinking habits at the point when you first began to drink regularly. Now I want you to think to when your drinking behavior was different in a significant way from this time. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes ( 1 ) No ( 2 )

81. ←

21. How old were you at the beginning of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

22. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

23. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

24. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

25. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

26. What type of beverage would you usually consume in an average month (record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

27. How would you rate your usual style of drinking during an average month (check the appropriate category):

- Abstinent ( 1 )
- Occasional (less than 15 days) ( 2 )
- Weekend mainly ( 3 )
- Binge (at least 3 days heavy drinking) ( 4 )
- Frequent (15 days or more per month) ( 5 )

28. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

30. ←

29. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family ...	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )



30. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

31. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**E. Next subsequent phase**

32. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at a subsequent phase. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

33. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

34. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

35. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

36. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

37. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

38. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

39. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

40. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

42. ←

41. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

42. What percentage of time would you drink alone, and what percentage of the time with at least one other person (record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

43. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**F. Next subsequent phase**

44. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

45. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

46. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

47. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

48. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

49. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

50. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer	_____	_____	_____
		%	
Liquor	_____	_____	_____
		%	
Wine	_____	_____	_____
		%	

51. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent	(	1	)
Occasional ( <i>less than 15 days</i> )	(	2	)
Weekend mainly	(	3	)
Binge ( <i>at least 3 days heavy drinking</i> )	(	4	)
Frequent ( <i>15 days or more per month</i> )	(	5	)

52. Did any important event or events occur during this period that altered your usual drinking habits:

	Yes	No
	( 1 )	( 2 )

**54.** ←

53. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

54. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone	_____	_____	_____
		%	
With others	_____	_____	_____
		%	

55. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning	_____	_____	_____
		%	
Afternoon	_____	_____	_____
		%	
Evening	_____	_____	_____
		%	

**G. Next subsequent phase**

56. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

	Yes	No
	( 1 )	( 2 )

**81.** ←

57. How old were you at the beginning of the phase:

a. Years:	_____	_____
		yrs
b. Months:	_____	_____
		mos

58. How old were you at the end of this phase:

a. Years:	_____	_____
		yrs
b. Months:	_____	_____
		mos

59. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

60. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

61. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

62. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

63. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

64. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1 ) ( 2 )



65. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

66. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

67. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**H. Next subsequent phase**

**68. Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 )      No ( 2 )

**81.** ←

**69.** How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**70.** How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**71.** During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

**72.** How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

**73.** What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

*(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)*

**74.** What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

**75.** How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

**76.** Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 )      No ( 2 )

**78.** ←

**77.** What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )





Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

## Symptoms of Liver Disease

**Instructions:** People with liver disease may or may not have symptoms, such as pain over the liver area (under your ribs, right of your belly), feeling sick to your stomach, poor appetite (not feeling hungry), itching, or tiredness. In this questionnaire, we are trying to identify what symptoms you have, how severe they are, and how much they affect you.

*(Items 1-11 are reserved for clinical center use.)*

**12.** During the last month, how much have you been bothered by the following:

*Circle one for each symptom*

### Degree of bother

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>a.</b> Pain over liver (pain under ribs, right of your belly)	1	2	3	4	5
<b>b.</b> Nausea (sick to stomach)	1	2	3	4	5
<b>c.</b> Poor appetite (not hungry)	1	2	3	4	5
<b>d.</b> Fatigue	1	2	3	4	5
<b>e.</b> Weight loss	1	2	3	4	5
<b>f.</b> Diarrhea (watery poop)	1	2	3	4	5
<b>g.</b> Muscle aches or cramps	1	2	3	4	5
<b>h.</b> Muscle weakness	1	2	3	4	5
<b>i.</b> Headaches	1	2	3	4	5
<b>j.</b> Easy bruising (“black and blue” marks are easy to get)	1	2	3	4	5
<b>k.</b> Itching	1	2	3	4	5
<b>l.</b> Irritability (get mad easily)	1	2	3	4	5
<b>m.</b> Depression/sadness	1	2	3	4	5
<b>n.</b> Trouble sleeping	1	2	3	4	5
<b>o.</b> Trouble concentrating (trouble with attention, thinking about one thing at a time)	1	2	3	4	5



<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

*Circle one for each symptom*  
**Degree of bother**

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>p.</b> Jaundice (yellow color to skin, eyes, etc)	1	2	3	4	5
<b>q.</b> Dark urine (dark pee)	1	2	3	4	5
<b>r.</b> Swelling of ankles	1	2	3	4	5
<b>s.</b> Swelling of abdomen (belly swells up)	1	2	3	4	5

**13.** Which of the following best describes how tired you feel and how your tiredness affects you (*choose only one*):

*Circle one*

- I feel normal and am not tired (**If this is how you feel, please circle “1” and go to item number 17 – Thank you!**) ..... 1
- I feel tired some of the time, but can do what I want to do without trouble ..... 2
- I feel tired, and do what I want but with trouble ..... 3
- I feel tired and it keeps me from doing what I want to do ..... 4

**14.** How often are you bothered by being tired (*choose only one*):

- All day, every day ..... 1
- Part of the day, every day ..... 2
- At least part of several days a week ..... 3
- At least part of one day a week ..... 4
- Not as much as above ..... 5

**15.** Are you tired (*choose only one*):

- When you wake up in the morning ..... 1
- Or does it come on with the day ..... 2
- Or does it have no time pattern ..... 3

**16.** Do you feel more tired the day after you exercise or have a lot of activity:

- Yes ..... 1
- No ..... 2

<i>Affix label here</i>	
Patient ID:	___ _ _ _
Patient code:	___ _ _ _
Visit code:	___ _ _ _

17. In general, how have you felt overall in the past month:

- Very good ..... 1
- Good ..... 2
- Fair ..... 3
- Poor ..... 4
- Awful ..... 5

18. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**

## NAFLD Database

## LQ – Symptoms of Liver Disease

**Purpose:** To obtain the patient's view of his/her liver disease symptoms.

**When:** Visits s1, f048, f096, f144, and f192.

**Administered by:** Self-administered during the visit, but Clinical Coordinator must be available to answer questions and review for completeness.

**Respondent:** Patient, 18 years of age or older.

**Instructions:** The Clinical Coordinator should complete Part A below and attach a label to each of pages 2-4. The patient should complete pages 2-4 during the visit. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should then complete section B below.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:   1     q     1  

7. Study: NAFLD Database   1  

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

9. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## Symptoms of Liver Disease

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:   \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

**Instructions:** People with liver disease may or may not have symptoms, such as pain over the liver area (right upper quadrant), nausea, poor appetite, itching, tiredness, or fatigue. In this questionnaire, we are trying to identify what symptoms you have, how severe they are, and how much they affect your life style.

*(Items 1-9 are reserved for clinical center use.)*

**10.** During the last month, how much have you been bothered by the following:  
*Circle one for each symptom*

	<b>Degree of bother</b>				
	<b>None at all</b>	<b>A little bit</b>	<b>Moderately</b>	<b>Quite a bit</b>	<b>Extremely</b>
<b>a.</b> Pain over liver (right upper quadrant)	1	2	3	4	5
<b>b.</b> Nausea	1	2	3	4	5
<b>c.</b> Poor appetite	1	2	3	4	5
<b>d.</b> Fatigue	1	2	3	4	5
<b>e.</b> Weight loss	1	2	3	4	5
<b>f.</b> Diarrhea	1	2	3	4	5
<b>g.</b> Muscle aches or cramps	1	2	3	4	5
<b>h.</b> Muscle weakness	1	2	3	4	5
<b>i.</b> Headaches	1	2	3	4	5
<b>j.</b> Easy bruising	1	2	3	4	5
<b>k.</b> Itching	1	2	3	4	5
<b>l.</b> Irritability	1	2	3	4	5
<b>m.</b> Depression/sadness	1	2	3	4	5
<b>n.</b> Trouble sleeping	1	2	3	4	5
<b>o.</b> Trouble concentrating	1	2	3	4	5
<b>p.</b> Jaundice (yellow color to skin, eyes, etc)	1	2	3	4	5
<b>q.</b> Dark urine	1	2	3	4	5
<b>r.</b> Swelling of ankles	1	2	3	4	5
<b>s.</b> Swelling of abdomen	1	2	3	4	5

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

11. Which of the following best describes your level of fatigue and the effects of your fatigue (*choose only one*):

*Circle one*

- I feel completely normal and have no fatigue (**circle "1" and go to item # 16**) ..... 1
- I have some fatigue, but I can do what I want to do without difficulty ..... 2
- I have fatigue, and I do what I want to do but with difficulty ..... 3
- I have fatigue and it keeps me from doing what I want to do ..... 4
- I have fatigue that prevents me from working ..... 5
- I have fatigue that prevents me from working and requires that I have assistance to carry out normal activities of living ..... 6
- I am worse off than any of these statements suggest ..... 7

12. How frequently are you bothered by fatigue (*choose only one*):

- All day, every day ..... 1
- Part of the day, every day ..... 2
- At least part of several days a week ..... 3
- At least part of one day a week ..... 4
- Less frequently ..... 5

13. Is your fatigue typically present (*choose only one*):

- When you wake up in the morning ..... 1
- Or does it come on with the day ..... 2
- Or does it have no time pattern ..... 3

14. Is your fatigue typically worse the day after a period of extra activity or exercise:

- Yes ..... 1
- No ..... 2

<i>Affix label here</i>	
Patient ID:	___ ___ ___ ___
Patient code:	___ ___ ___
Visit code:	___ ___ ___ ___

**15.** Do you believe that your fatigue is due to your liver problem (as opposed to something else, like not getting enough sleep, depression or being out of shape):

*Circle one*

- Yes ..... 1
- No ..... 2

**16.** In general, how have you felt overall in the past month:

- Very good ..... 1
- Good ..... 2
- Fair ..... 3
- Poor ..... 4
- Awful ..... 5

**17.** Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**

## NAFLD Database

LR - Laboratory Results - Tests Done During  
Screening and Followup

**Purpose:** To record archival and current laboratory test results for tests done during both screening and followup.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Study Physician (adult hepatologist, pediatric hepatologist, or pediatrician) and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. Complete tests as needed (repeat test if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use a calculator if you need to convert units to match the units specified on this form. Please note that the units  $10^3$  cells/ $\mu$ L, 1000 cells/ $\mu$ L, and  $10^9$  cells/L are equivalent. Call the DCC if you have questions about conversion or how to record a value. Staple the lab report to the back of this form. If your lab reports values electronically, print a copy of the results and staple the report to the back of this form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date form was initiated*):  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision: 1 r 3

7. Study: NAFLD Database 1

## B. Hematology

8. Date of blood draw for complete blood count:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

9. Hemoglobin: \_\_\_\_\_ g/dL

10. Hematocrit: \_\_\_\_\_ %

11. White blood cell count (WBC):  
\_\_\_\_\_  $10^3$  cells/ $\mu$ L or  $10^9$  cells/L

12. Platelet count:  
\_\_\_\_\_, \_\_\_\_\_ cells/ $\mu$ L

## C. Chemistries and HbA1c

13. Date of blood draw for chemistries:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

14. Sodium:\* \_\_\_\_\_ mEq/L

15. Potassium:\* \_\_\_\_\_ mEq/L

16. Chloride:\* \_\_\_\_\_ mEq/L

17. Bicarbonate:\* \_\_\_\_\_ mEq/L

18. Calcium:\* \_\_\_\_\_ mg/dL

19. Phosphate:\* \_\_\_\_\_ mg/dL

20. Blood urea nitrogen (BUN): \_\_\_\_\_ mg/dL

21. Creatinine: \_\_\_\_\_ mg/dL

22. Uric acid: \_\_\_\_\_ mg/dL

*\* Optional: If not done, enter "m".*

23. Date of blood draw for HbA1c:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window: within 3 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

24. HbA1c: \_\_\_\_\_ ● \_\_\_\_\_  
 %

**D. Liver panel and alpha feto protein**

25. Date of blood draw for liver panel:  
 \_\_\_\_\_ ● \_\_\_\_\_  
 day mon year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

26. Bilirubin (total): \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

27. Bilirubin (direct): \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

28. Aspartate aminotransferase (AST)  
 \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

a. Upper limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

29. Alanine aminotransferase (ALT)  
 \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

a. Upper limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

30. Alkaline phosphatase  
 \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

a. Upper limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

31. Gamma glutamyl transferase (GGT):  
 \_\_\_\_\_ ● \_\_\_\_\_  
 U/L

32. Total protein: \_\_\_\_\_ ● \_\_\_\_\_  
 g/dL

33. Albumin: \_\_\_\_\_ ● \_\_\_\_\_  
 g/dL

34. Prothrombin time (PT): \_\_\_\_\_ ● \_\_\_\_\_  
 sec

35. International normalized ratio (INR): \_\_\_\_\_ ● \_\_\_\_\_

36. Date of blood draw for alpha feto protein:  
 \_\_\_\_\_ ● \_\_\_\_\_  
 day mon year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide). Record "m" if test not done.*

37. Alpha feto protein: \_\_\_\_\_ ● \_\_\_\_\_  
 ng/mL

**E. Fasting lipid profile**

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.*

38. Date of blood draw for fasting lipid profile:  
 \_\_\_\_\_ ● \_\_\_\_\_  
 day mon year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

a. Triglycerides: \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

b. Total cholesterol: \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

c. HDL cholesterol: \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

d. LDL cholesterol: \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

**F. Fasting glucose and insulin**

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.*

39. Date of blood draw for fasting glucose and insulin levels:  
 \_\_\_\_\_ ● \_\_\_\_\_  
 day mon year

*Date must be within the required time window: within 6 months of screening or in the time window for the followup visit (check the patient's Database visit time window guide).*

a. Serum glucose: \_\_\_\_\_ ● \_\_\_\_\_  
 mg/dL

b. Serum insulin: \_\_\_\_\_ ● \_\_\_\_\_  
 μU/mL



**G. Administrative information**

40. Study Physician PIN: \_\_\_\_\_

41. Study Physician signature:  
\_\_\_\_\_

42. Clinical Coordinator PIN: \_\_\_\_\_

43. Clinical Coordinator signature:  
\_\_\_\_\_

44. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
          day          mon          year

## NAFLD Database

## LS - Laboratory Results - Tests Done only During Screening

**Purpose:** To record archival and current results of laboratory tests done only at screening.

**When:** Visit s1.

**Administered by:** Study Physician (adult hepatologist or pediatrician) and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. The acceptable time interval for archival laboratory data is specified for each test and recorded next to the date of blood draw. Laboratory tests should be repeated if the blood draw date is outside the specified time interval. Use a calculator if you need to convert units to match the units specified on this form. Call the DCC if you have questions about conversion or how to record a value. If  is checked for any item, you do not need to complete the rest of the form and the form may not be keyed.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:            s    1            \_\_\_\_\_

6. Form & revision:            1    s    1

7. Study:                    NAFLD Database 1

### B. Screening etiologic tests

8. Date of blood draw for serological assays to exclude viral causes of chronic liver disease:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

*Repeat if date is greater than 5 years prior to screening.*

*If the patient is judged by Study Physician to have a high-risk lifestyle, repeat if date is greater than 6 months prior to screening. \*Record as "m" if test is not done.*

a. Hepatitis B surface antigen (HBsAg):

Positive  ( 1 )

Negative ( 2 )

b. Hepatitis B core total antibody (anti-HBc) (if total anti-HBc is not available, record results from IgG test)\*:

Positive ( 1 )

Negative ( 2 )

c. Hepatitis B surface antibody (anti-HBs)\*:

Positive ( 1 )

Negative ( 2 )

d. Hepatitis C antibody (anti-HCV) (indicate result as negative if EIA is positive but RIBA is negative or if RIBA is indeterminate but HCV RNA is negative):

Positive  ( 1 )

Negative ( 2 )

e. Hepatitis C virus RNA:

Positive  ( 1 )

Negative ( 2 )

Not available ( 3 )

f. Hepatitis A virus antibody (anti-HAV, total):

Positive ( 1 )

Negative ( 2 )

Not available ( 3 )

### C. Iron

9. Date of blood draw for iron overload screening:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

*Repeat if date is greater than 5 years prior to screening.*

a. Iron: \_\_\_\_\_  $\mu\text{g}/\text{dL}$

b. Total iron binding capacity: \_\_\_\_\_  $\mu\text{g}/\text{dL}$

c. Ferritin: \_\_\_\_\_  $\text{ng}/\text{mL}$

10. Is hepatic iron index available:

(Yes) (No)  
 ( 1 ) ( 2 )  
 12.  1

11. Hepatic iron index:

\_\_\_\_\_ • \_\_\_\_\_  
 μMoI/g/year

**D. HFE gene analysis**

12. Does the patient have an abnormality in an iron overload screening test, a family history of iron overload or hemochromatosis, or histological iron of greater than 3+:

(Yes) (No)  
 ( 1 ) ( 2 )  
 15.  1

13. Date of blood draw for HFE gene analysis:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

14. Type of abnormality (*WT = wild type; check only one*):

- None ( 0 )
- C282Y/H63D heterozygote mutation ( 1 )
- C282Y/C282Y homozygote mutation ( 2 )
- C282Y/WT heterozygote mutation ( 3 )
- H63D/WT heterozygote mutation ( 4 )
- H63D/H63D homozygote mutation ( 5 )

**E. Ceruloplasmin**

15. Is patient 40 years old or younger:

(Yes) (No)  
 ( 1 ) ( 2 )  
 18.  1

16. Date of blood draw for ceruloplasmin: (*required only if patient is 40 years old or younger*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Repeat if date is greater than 10 years prior to screening.*

17. Ceruloplasmin

\_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

a. Upper limit of normal: \_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

b. Lower limit of normal: \_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

**F. Alpha-1 antitrypsin**

18. Date of blood draw for alpha-1 antitrypsin (A1AT):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Repeat if date is greater than 10 years prior to screening.*

19. Alpha-1 antitrypsin (A1AT) \_\_\_\_\_ mg/dL

a. Upper limit of normal: \_\_\_\_\_ mg/dL

b. Lower limit of normal: \_\_\_\_\_ mg/dL

20. A1AT phenotype (*if unknown record as "m"*)

a. Pi Z heterozygote: (Yes) (No)  
 ( 1 ) ( 2 )

b. Pi ZZ homozygote: (Yes) (No)  
 ( 1 ) ( 2 )

21. A1AT deficiency (*physician judgment*):

(Yes) (No)  
 ( 1 ) ( 2 )  
 21.  1

**G. Autoantibody studies**

22. Date of blood draw for autoantibody tests:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Repeat if date is greater than 5 years prior to screening.*

23. Antinuclear antibody (ANA):

Positive ( \* ) ( 1 )  
 Negative ( 2 )

24.  1

a. If positive, ANA: 1/ \_\_\_\_\_

*\*If results are given as units, record as "n," and key the actual result in the General Comments.*

**24. Antismooth muscle antibody (ASMA):**

Positive ( \* )  
 Negative ( 2 )  
 [25.]

a. If positive, ASMA: 1/ \_\_\_\_\_

*\*If results are given as units, record as "n," and key the actual result in the General Comments.*

**25. Antimitochondrial antibody (AMA)\*:**

Positive ( † )  
 Negative ( 2 )  
 [26.]

a. If positive, AMA: 1/ \_\_\_\_\_

*\*Optional if patient under age 18, enter "m" if not done.*

*†If results are given as units, record as "n," and key the actual result in the General Comments.*

**26. Is the patient 18 or older:**

Yes ( 1 ) No ( 2 )  
 [30.]

**27. Lymphocytotoxic antibody (LCA)\*:**

Positive ( 1 )  
 Negative ( 2 )  
 [28.]

a. If positive, LCA: 1/ \_\_\_\_\_

**28. Antibody to liver-kidney microsomal antigen (LKM1)\*:**

Positive ( 1 )  
 Negative ( 2 )  
 [29.]

a. If positive, LKM1: 1/ \_\_\_\_\_

**29. Rheumatoid factor (RF)\*:**

Positive ( 1 )  
 Negative ( 2 )  
 [30.]

a. If positive, RF: \_\_\_\_\_

*\*Optional - record as "m" if test is not done*

**H. Immunoglobulin levels**

**30. Are immunoglobulin levels available:**

Yes ( 1 ) No ( 2 )  
 [35.]

**31. Date of blood draw for immunoglobulin levels:**

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**32. IgA:**

\_\_\_\_\_ mg/dL

**33. IgG:**

\_\_\_\_\_ mg/dL

**34. IgM:**

\_\_\_\_\_ mg/dL

**I. Other screening blood tests**

**35. Date of blood draw for thyroid stimulating hormone (TSH)\*:**

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Repeat if date is greater than 5 years prior to screening. \*Optional if patient under age 18, enter "m" if not done.*

**36. Thyroid stimulating hormone:**

\_\_\_\_\_ • \_\_\_\_\_  
 μU/mL

**J. Administrative information**

37. Study Physician PIN: \_\_\_\_\_

38. Study Physician signature:  
\_\_\_\_\_

39. Clinical Coordinator PIN: \_\_\_\_\_

40. Clinical Coordinator signature:  
\_\_\_\_\_

41. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## NAFLD Database

## LT - Liver Tissue Banking

**Purpose:** To document collection of extra liver tissue and flash freeze procedures for liver specimen banking.

**When:** Whenever more than 2 cm of liver tissue are obtained during a biopsy. If you have more than one pre-enrollment biopsy with flash frozen liver tissue available, contact the Data Coordinating Center. Only one LT form may be completed prior to enrollment in the Database. Use visit code s1, f024, f048, f096, f144, f192, or in followup, use the code for the followup visit that is currently open (check the patient's visit time window guide). If after enrollment and before the f024 window is open, use visit code "n". This form is expected whenever the Liver Biopsy Materials Documentation (SD) form says liver tissue was obtained for banking.

**By whom:** Clinical Coordinator.

**Instructions:** Liver biopsy tissue should be obtained by a needle core biopsy (as opposed to a wedge biopsy) using a 16 or greater gauge needle. Whenever more than 2 cm of tissue are obtained during biopsy, place a 1-2 mm segment of liver tissue into a 2.0 mL polypropylene cryovial with preprinted label attached. Flash freeze liver tissue immediately (within 5 minutes following biopsy) by placing labeled cryovial containing liver tissue into a portable liquid nitrogen container. Store the cryovial locally in -70° C (or colder) freezer temporarily and batch ship cryovials on dry ice monthly to the NIDDK Biosample Repository located at McKesson Bioservices.

**A. Center, patient and visit identification**

1. Center code: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code  
*(s1, n, or code for followup visit that is open):*  
 \_\_\_\_\_

6. Form & revision:   1     t     1  

7. Study: NAFLD Database   1  

**B. Liver biopsy**

8. Date of biopsy:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

9. Was the liver tissue obtained using a 16-gauge or greater needle:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

10. Was liver tissue obtained via a second pass:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

11. Was the liver tissue obtained from a needle core biopsy *(as opposed to a wedge biopsy)*:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

**C. Cryovial label**

12. Attach duplicate cryovial label:

**D. Flash freeze procedures**

13. Was tissue flash frozen within 5 minutes of biopsy by placing in portable liquid nitrogen container:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

15.

14. Explain what was done and why protocol was not followed:

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---

15. Was tissue shipped on dry ice to the Biosample Repository on same day as biopsy:

( Yes )      ( No )  
          ( 1 )      ( 2 )

17.

16. Describe conditions of local storage prior to shipment to the Biosample Repository (e.g., temperature, date and time placed in freezer):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**E. Administrative information**

17. Clinical Coordinator PIN: \_\_\_\_\_

18. Clinical Coordinator signature:  
\_\_\_\_\_

19. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
          day                    mon                    year





Affix Label Here
Patient ID: _____
Patient code: _____
Visit code: _____

## Modifiable Activity Questionnaire

*(Items 1-11 are reserved for clinic use.)*

12. How many times in the past 14 days have you done at least 20 minutes of exercise hard enough to make you breathe heavily and make your heart beat fast? (Hard exercise includes, for example, playing basketball, jogging, or fast bicycling; include time in physical education class)?

**Circle one**

- None ..... 1
- 1 to 2 days ..... 2
- 3 to 5 days ..... 3
- 6 to 8 days ..... 4
- 9 or more days ..... 5

13. How many times in the past 14 days have you done at least 20 minutes of light exercise that was not enough to make you breathe heavily and make your heart beat fast? (Light exercise includes playing basketball, walking or slow bicycling; include time in physical education class)?

**Circle one**

- None ..... 1
- 1 to 2 days ..... 2
- 3 to 5 days ..... 3
- 6 to 8 days ..... 4
- 9 or more days ..... 5

14. During a normal week how many hours a day do you watch television and videos, or play computer or video games, or use the computer for other activities before or after school?

**Circle one**

- None ..... 1
- 1 hour or less ..... 2
- 2 to 3 hours ..... 3
- 4 to 5 hours ..... 4
- 6 or more hours ..... 5

15. During the past 12 months, how many team or individual sports or activities did you participate in on a competitive level, such as varsity or junior varsity sports, intramurals, or out-of-school programs?

**Circle one**

- None ..... 1
- 1 activity ..... 2
- 2 activities ..... 3
- 3 activities ..... 4
- 4 or more activities ..... 5

What activities did you compete in?

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Affix Label Here  
 Patient ID: \_\_\_\_\_  
 Patient code: \_\_\_\_\_  
 Visit code: \_\_\_\_\_

**PAST YEAR LEISURE-TIME PHYSICAL ACTIVITY**

**16.** Check all activities that you did at least 10 times in the **PAST YEAR**. Do not include time spent in school physical education classes. Include all sport teams that you participated in during the last year.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> 01. Aerobics                         | <input type="checkbox"/> 02. Band/Drill Team | <input type="checkbox"/> 03. Baseball               |
| <input type="checkbox"/> 04. Basketball                       | <input type="checkbox"/> 05. Bicycling       | <input type="checkbox"/> 06. Bowling                |
| <input type="checkbox"/> 07. Cheerleading                     | <input type="checkbox"/> 08. Dance Class     | <input type="checkbox"/> 09. Football               |
| <input type="checkbox"/> 10. Garden/Yard Work                 | <input type="checkbox"/> 11. Gymnastics      | <input type="checkbox"/> 12. Hiking                 |
| <input type="checkbox"/> 13. Ice Skating                      | <input type="checkbox"/> 14. Roller Skating  | <input type="checkbox"/> 15. Running and Exercise   |
| <input type="checkbox"/> 16. Skateboarding                    | <input type="checkbox"/> 17. Snow Skiing     | <input type="checkbox"/> 18. Soccer                 |
| <input type="checkbox"/> 19. Softball                         | <input type="checkbox"/> 20. Street Hockey   | <input type="checkbox"/> 21. Swimming               |
| <input type="checkbox"/> 22. Tennis                           | <input type="checkbox"/> 23. Volleyball      | <input type="checkbox"/> 24. Water Skiing           |
| <input type="checkbox"/> 25. Weight Training<br>(Competitive) | <input type="checkbox"/> 26. Wrestling       | <input type="checkbox"/> 27. Others: _____<br>_____ |

List each activity that you checked above in the "Activity" box below.  
 Check the months you did each activity and then estimate the amount of time spent in each activity.

Activity Code #	Activity	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	Months per Year	Days per Week	Minutes per Day
___														___	___	___
___														___	___	___
___														___	___	___
___														___	___	___
___														___	___	___
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___														___	___	___
___														___	___	___
___														___	___	___
___														___	___	___

**17.** Today's date: \_\_\_\_\_

## NAFLD Database

## MV - Missed or Incomplete Visit

**Purpose:** Record reason(s) for missed or incomplete visit.

**When:** At the close of a visit window for any missed followup visit or for any followup visit with specific forms not completed. Use visit code f024, f048, f096, f144, or f192.

**Respondent:** None.

**Completed by:** Clinical Coordinator.

**Instructions:** Complete this form when a patient fails to complete a visit or specific visit procedures (resulting in missing forms) within the time window for the visit.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

day                      mon                      year

5. Visit code: f \_\_\_\_\_

6. Form & revision: m v 1

7. Study: NAFLD Database 1

### 10. Steps taken to avoid missing the visit (check all that apply)

a. Telephoned patient: ( )

b. Mailed reminder card: ( )

c. Other (specify): ( )

\_\_\_\_\_ specify

**14.** \_\_\_\_\_

### B. Reason for completion of this form

8. Was the entire visit missed:

( Yes )                      ( No )  
( 1 )                      ( 2 )

**11.** \_\_\_\_\_

### C. Missed visit information

9. Reason for missed visit (check all that apply)

a. Patient was ill: ( )

b. Patient was temporarily away from area: ( )

c. Patient refused to return: ( )

d. Patient has permanently moved from the area: ( )

e. Unable to contact patient: ( )

f. Other (specify): ( )

\_\_\_\_\_ specify

**D. Missed form information**

- 11. Check form(s) not completed  
(check required forms that were missed)
  - a. Food Questionnaire Documentation (BD): ( )
  - b. Blood Processing for Plasma and Serum (BP): ( )
  - c. Followup Medical History (HI): ( )
  - d. Liver Imaging Studies Report (IR): ( )
  - e. Symptoms of Liver Disease (Children) (LP): ( )
  - f. Symptoms of Liver Disease (LQ): ( )
  - g. Laboratory Results - Tests Done During Screening and Followup (LR): ( )
  - h. Modifiable Activity Questionnaire (MA): ( )
  - i. Physical Activity (PA): ( )
  - j. Physical Examination (PE): ( )
  - k. Focused Physical Examination (PF): ( )
  - l. Pediatric Quality of Life: Parent of adolescent age 13-17 (PQ): ( )
  - m. Pediatric Quality of Life: Parent of child age 8-12 (PR): ( )
  - n. Pediatric Quality of Life: Parent of child age 5-7 (PS): ( )
  - o. Pediatric Quality of Life: Parent of toddler (PT): ( )
  - p. Pediatric Quality of Life: Child age 5-7 (PV): ( )
  - q. Pediatric Quality of Life: Child age 8-12 (PW): ( )
  - r. Pediatric Quality of Life: Adolescent age 13-17 (PY): ( )
  - s. MOS 36-Item Short-form Health Survey (QF): ( )
  - t. Other (specify): ( )

\_\_\_\_\_ specify

- 12. Reason form(s) not completed  
(check all that apply)
  - a. Patient was ill: ( )
  - b. Patient refused procedure: ( )
  - c. Parent refused procedure: ( )
  - d. Procedure forgotten: ( )
  - e. Other (specify): ( )

\_\_\_\_\_ specify

- 13. Attempts made to complete form(s) (check all that apply)
  - a. Attempted to reschedule procedure: ( )
  - b. Attempted to collect interview data by phone from patient/family: ( )
  - c. Attempted to gain patient/parent cooperation: ( )
  - d. Other (specify): ( )

\_\_\_\_\_ specify

**E. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
\_\_\_\_\_

16. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## NAFLD Database

## PA – Physical Activity

**Purpose:** To obtain the patient's physical activity.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered, but Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient, 18 years of age or older, without help from spouse or family.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to each of pages 2-4.

**Screening:** The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-4. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should complete section B below. **Followup:** Pages 2-4 should be mailed to the patient 2 weeks prior to the scheduled study visit with instructions to complete the form at home and to bring the completed form to the next study visit. When the patient returns for the visit, the Clinical Coordinator should review the form for completeness and obtain responses for missing items during the visit. If the patient did not bring a completed form to the visit, the patient should complete the form at the visit. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should complete section B. Item 4 should be completed with the date the patient wrote in item 39. If the patient did not write in a date, use the date of the study visit for the visit date.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
           day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:          p     a     1  

7. Study:                    NAFLD Database   1  

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

9. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
           day                  mon                  year

<i>Affix label here</i>	
Patient ID:	___ ___ ___
Patient code:	___ ___
Visit code:	___ ___

**PA - Physical Activity**

**Instructions:** This survey asks for your views about your physical activity. *(Items 1-9 are reserved for clinical center use).*

**C. Non-Recreational Activity (Work Related)**

The following questions are about your non-recreational activity. Non-recreational activity is what you consider your main day to day activity, at work or at home, whether you get paid or not.

**Circle one**

**10.** Level of activity that best describes your usual non-recreational activity.

**Vigorous or strenuous activity:** ..... 1  
 (involves heavy lifting, digging, handling heavy tools or equipment, or any other activity causing you to work up a sweat or get out of breath)

**Moderate activity:** ..... 2  
 (requires moderate-paced walking on a flat surface, heavy one-arm work or moderate two-arm work, such as picking, sweeping, lifting light objects, or heavy housework)

**Light activity:** ..... 3  
 (involves sitting down with one hand movement, moderate one-arm work or light two-arm work, with occasional walking or standing such as office work, filing or sorting, or light or moderate housework)

**11.** On average, how many hours per day do you spend at this level of activity?

\_\_\_\_\_ Hours

**12.** On average, how many hours per day do you spend sitting down?

\_\_\_\_\_ Hours

Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

#### D. Recreational Activity (Non-Work Related)

The following questions are about the recreational activities you spend at least 15 minutes doing each week. You should count walking or biking to work and any other activities outside of work. Next to each activity that you participate in, write in how many total hours or minutes you do that activity on an average week. Mark the places for hours and minutes only for the activities you participate in.

For each activity that you engage in for at least 15 minutes per week, please circle the activity and write the number of hours or minutes that you do that activity per week.	
13. Swimming	Hours: _____ Minutes: _____
14. Jogging	Hours: _____ Minutes: _____
15. Running	Hours: _____ Minutes: _____
16. Brisk walking	Hours: _____ Minutes: _____
17. Bicycling on hills	Hours: _____ Minutes: _____
18. Bicycling on flat surfaces	Hours: _____ Minutes: _____
19. Hiking or climbing	Hours: _____ Minutes: _____
20. Yard work / Gardening	Hours: _____ Minutes: _____
21. Aerobics	Hours: _____ Minutes: _____
22. Dancing	Hours: _____ Minutes: _____
23. Calisthenics (exercises without machines)	Hours: _____ Minutes: _____
24. Weight lifting, using weight machines, or heavy lifting	Hours: _____ Minutes: _____
25. Treadmill or Stairmaster	Hours: _____ Minutes: _____
26. Chopping wood	Hours: _____ Minutes: _____

Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

For each activity that you engage in for at least 15 minutes per week, please circle the activity and write the number of hours or minutes that you do that activity per week.

27. Painting / Woodworking	Hours: _____ Minutes: _____
28. Housecleaning	Hours: _____ Minutes: _____
29. Golfing	Hours: _____ Minutes: _____
30. Singles tennis, racquetball, or other court sports	Hours: _____ Minutes: _____
31. Doubles tennis, racquetball or other court sports	Hours: _____ Minutes: _____
32. Basketball	Hours: _____ Minutes: _____
33. Football, soccer, or other field sports	Hours: _____ Minutes: _____
34. Skiing	Hours: _____ Minutes: _____
35. Bowling	Hours: _____ Minutes: _____
<b>Others</b> (write in the name of activity):	
36. Name of activity _____	Hours: _____ Minutes: _____
37. Name of activity _____	Hours: _____ Minutes: _____
38. Name of activity _____	Hours: _____ Minutes: _____

39. Today's date:

\_\_\_\_\_

**Thank you for completing this survey. Please bring this completed survey with you to your scheduled NASH CRN study visit.**





**12. Triceps** (*right arm, with elbow extended and arm relaxed; repeat skin fold measurements until you have two within 10 mm of each other; repeat mid-upper arm circumference measurements until you have two within 1.5 in (3.8 cm) of each other*)

**a. Skin fold, 1st measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
mm

**b. Skin fold, 2nd measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
mm

**c. Mid-upper arm circumference, 1st measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

**d. Mid-upper arm circumference, 2nd measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

**e. Units for arm circumference:**

- Inches ( 1 )
- Centimeters ( 2 )

**13. Temperature** (*Oral or other, as appropriate for age*)

**a. Degrees:**

\_\_\_\_\_ ● \_\_\_\_\_

**b. Scale:**

- Fahrenheit ( 1 )
- Centigrade ( 2 )

**14. Blood pressure**

**a. Systolic:**

\_\_\_\_\_ mmHg

**b. Diastolic:**

\_\_\_\_\_ mmHg

**15. Resting radial pulse:**

\_\_\_\_\_ beats/minute

**16. Respiratory rate:**

\_\_\_\_\_ breaths/minute

**C. Examination findings**

**17. Skin:**

- Normal ( 1 )
- Abnormal ( 2 ) 20.

**18. Acanthosis nigricans** (*check only one*):

Absent (*not detectable on close inspection*) ( 0 )

Present (*clearly present on close inspection, not visible to casual observer, extent not measurable*) ( 1 )

Mild (*limited to base of skull, not extending to lateral margins of neck, < 3 inches in breadth*) ( 2 )

Moderate (*extending to lateral margins of neck, 3-6 inches in breadth, not visible from patient's front*) ( 3 )

Severe (*extending anteriorly, > 6 inches in breadth, visible from front*) ( 4 )

**19. Other skin abnormality** (*check all that apply*)

- a. Jaundice: ( 1 )
- b. Palmar erythema: ( 1 )
- c. Spider angiomata: ( 1 )
- d. Other (*specify*): ( 1 )

**e. None of the above:** ( 1 )

**20. Head, eyes, ears, nose, throat:**

- Normal ( 1 )
- Abnormal ( 2 ) 22.

**21. Abnormality of the head, eyes, nose, throat** (*check all that apply*)

- a. Jaundice: ( 1 )
- b. Other (*specify*): ( 1 )

\_\_\_\_\_ specify

**22. Neck:**

- Normal ( 1 )
- Abnormal ( 2 ) 23.

\_\_\_\_\_ specify abnormality

**23. Lymphatic:**

Normal ( 1 )  
 Abnormal **24.**  ( 2 )  
 \_\_\_\_\_  
 specify abnormality

**24. Chest and lungs:**

Normal ( 1 )  
 Abnormal **25.**  ( 2 )  
 \_\_\_\_\_  
 specify

**25. Heart:**

Normal ( 1 )  
 Abnormal **26.**  ( 2 )  
 \_\_\_\_\_  
 specify abnormality

**26. Abdomen:**

Normal ( 1 )  
 Abnormal **28.**  ( 2 )  
 \_\_\_\_\_  
 specify

**27. Abdomen abnormality  
 (check all that apply)**

**a. Ascites:** ( 1 )  
**b. Obese:** ( 1 )  
**c. Other (specify):** ( 1 )  
 \_\_\_\_\_  
 specify

**28. Liver and spleen:**

Normal ( 1 )  
 Abnormal **30.**  ( 2 )

**29. Abnormality of liver or spleen (check all that apply)**

**a. Hepatomegaly:** ( 1 )  
 (if checked, span from right midclavicular line):  
 \_\_\_\_\_  
 cm

**b. Splenomegaly:** ( 1 )

**c. Other (specify):** ( 1 )  
 \_\_\_\_\_  
 specify

**30. Extremities:**

Not performed ( 0 )

Normal **32.**  ( 1 )

Abnormal **32.**  ( 2 )

**31. Abnormality of the extremities  
 (check all that apply)**

**a. Contractures:** ( 1 )

**b. Muscle wasting:** ( 1 )

**c. Palmar erythema:** ( 1 )

**d. Pedal edema:** ( 1 )

**e. Other (specify):** ( 1 )  
 \_\_\_\_\_  
 specify

**32. Genitourinary/pelvis:**

Not performed ( 0 )

Normal **33.**  ( 1 )

Abnormal **33.**  ( 2 )  
 \_\_\_\_\_  
 specify

**33. Nervous system:**

Not performed ( 0 )

Normal **35.**  ( 1 )

Abnormal **35.**  ( 2 )

34. Abnormality of the nervous system  
(check all that apply):

a. Mental status abnormal: ( )

b. Asterixis: ( )

c. Other (specify): ( )

\_\_\_\_\_ specify

**D. Tanner Staging**

35. Is Tanner staging required for this participant (Note: Required at screening visit if participant is 17 years old or younger.) (check only one):

Yes, participant has not reached full sexual maturity or is 17 years old or younger: ( )

No, participant is 18 years old or older ( )

44. \_\_\_\_\_

No, participant had reached full sexual maturity (Tanner stage 5 on all parameters at screening or for 2 consecutive visits) ( )

44. \_\_\_\_\_

36. Is the patient female:

(Yes) ( ) (No) ( )

40. \_\_\_\_\_

**Male Tanner Staging**

37. Genital stage: \_\_\_\_\_  
1-5

38. Testicular volume (smallest of right and left): \_\_\_\_\_  
cc

39. Pubic hair stage: \_\_\_\_\_  
1-5

44. \_\_\_\_\_

**Female Tanner Staging**

40. Breast stage: \_\_\_\_\_  
1-5

41. Pubic hair stage: \_\_\_\_\_  
1-5

42. Has menarche occurred: (Yes) ( ) (No) ( )

44. \_\_\_\_\_

43. What was the participant's age at menarche: \_\_\_\_\_  
age in years

**E. Administrative information**

44. Study Physician PIN: \_\_\_\_\_

45. Study Physician signature: \_\_\_\_\_

46. Clinical Coordinator PIN: \_\_\_\_\_

47. Clinical Coordinator signature: \_\_\_\_\_

48. Date form reviewed: \_\_\_\_\_  
day mon year

## NAFLD Database

## PF - Focused Physical Examination

**Purpose:** Record focused physical exam findings.

**When:** Visit f024.

**Administered by:** Study Physician and Clinical Coordinator.

**Respondent:** Patient.

**Instructions:** Details of the protocol for height, weight, waist and hip measurement are found in the NAFLD Database SOP Part I. In brief: height, weight, waist and hips should be measured with the patient standing and wearing light clothing. Shoes should be removed for height and weight measures. Measure the waist around the abdomen horizontally at the midpoint between the highest point of the iliac crest and the lowest part of the costal margin in the mid axillary line. Repeat waist measurements until you have two measurements within 4 in (10.2 cm) of each other. Measure the hips at the fullest part. Repeat hip measurements until you have two measurements within 4 in (10.2 cm) of each other.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date: \_\_\_\_\_

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: f 0 2 4

6. Form & revision: p f 2

7. Study: NAFLD Database 1

### B. Measurements

#### 8. Height (*shoes off*)

a. 1st measurement: \_\_\_\_\_

b. 2nd measurement: \_\_\_\_\_

c. Units:  
Inches (    )  
Centimeters (    )

#### 9. Weight (*shoes off*)

a. 1st measurement: \_\_\_\_\_

b. 2nd measurement: \_\_\_\_\_

c. Units:  
Pounds (    )  
Kilograms (    )

#### 10. Waist (*standing, at midpoint between highest point of iliac crest and lowest point of costal margin; repeat waist measurements until you have two measurements within 4 in (10.2 cm) of each other*)

a. 1st measurement: \_\_\_\_\_

b. 2nd measurement: \_\_\_\_\_

c. Units:  
Inches (    )  
Centimeters (    )

#### 11. Hip (*standing, at fullest part of the hips; repeat waist measurements until you have two measurements within 4 in (10.2 cm) of each other*)

a. 1st measurement: \_\_\_\_\_

b. 2nd measurement: \_\_\_\_\_

c. Units:  
Inches (    )  
Centimeters (    )

**12. Temperature** (*oral or other as appropriate for age*)

a. Degrees: \_\_\_\_\_ • \_\_\_\_\_

b. Scale:

Fahrenheit: (  )Centigrade: (  )**13. Blood pressure**

a. Systolic: \_\_\_\_\_ mmHg

b. Diastolic: \_\_\_\_\_ mmHg

14. Resting radial pulse: \_\_\_\_\_ beats/minute

15. Respiratory rate: \_\_\_\_\_ breaths/minute

**C. Focused liver signs****16. Abnormality** (*check all that apply*)a. Ascites: (  )b. Asterixis: (  )c. Contractures: (  )d. Hepatic encephalopathy: (  )e. Hepatocellular carcinoma: (  )f. Hepatomegaly: (  )*If Yes, span from right midclavicular line:*\_\_\_\_\_ • \_\_\_\_\_  
cmg. Hepatopulmonary syndrome: (  )h. Hepatorenal syndrome: (  )i. Jaundice: (  )j. Muscle wasting: (  )k. Palmar erythema: (  )l. Pedal edema: (  )m. Portal hypertension: (  )n. Spider angiomas: (  )o. Splenomegaly: (  )p. Other, (*specify*): (  )q. None of the above (  )**D. Administrative information**

17. Study Physician PIN: \_\_\_\_\_

18. Study Physician signature:  
\_\_\_\_\_

19. Clinical Coordinator PIN: \_\_\_\_\_

20. Clinical Coordinator signature:  
\_\_\_\_\_21. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## NAFLD Database

**PQ – Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of teens, age 13-17.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #10, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:  p   q   1

7. Study: NAFLD Database  1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )

Self-administered in Spanish ( 2 )

Interview in English ( 3 )

Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

**PQ - Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your teen had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other teens:	0	1	2	3	4
<b>27.</b> Not able to do things that other teens his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up with other teens:	0	1	2	3	4



*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PR – Pediatric Quality of Life:  
Parent Report for Children (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of child, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #10, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p r 1
7. Study: NAFLD Database  1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## PR - Pediatric Quality of Life: Parent Report for Children (Age 8-12)

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your child had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other children:	0	1	2	3	4
<b>25.</b> Other kids not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other children:	0	1	2	3	4
<b>27.</b> Not able to do things that other children his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up when playing with other children:	0	1	2	3	4

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PS – Pediatric Quality of Life:  
Parent Report for Young Children (Age 5-7)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of child, age 5-7.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #10, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   p     s     1
7. Study: NAFLD Database   1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**PS - Pediatric Quality of Life:  
Parent Report for Young Children (Age 5-7)**

<i>Affix label here</i>	
Patient ID:	___ _ _ _
Patient code:	___ _ _ _
Visit code:	___ _ _ _

In the past **ONE month**, how much of a **problem** has your child had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores, like picking up his or her toys:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other children:	0	1	2	3	4
<b>25.</b> Other kids not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other children:	0	1	2	3	4
<b>27.</b> Not able to do things that other children his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up when playing with other children:	0	1	2	3	4

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with school activities:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PT – Pediatric Quality of Life:  
Parent Report for Toddlers (Age 2-4)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of child, age 2-4.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #10, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   p     t     1
7. Study: NAFLD Database   1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English (   1   )  
 Self-administered in Spanish (   2   )  
 Interview in English (   3   )  
 Interview in Spanish (   4   )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year



## PT - Pediatric Quality of Life: Parent Report for Toddlers (Age 2-4)

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your child had with...

PHYSICAL FUNCTIONING <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
11. Walking:	0	1	2	3	4
12. Running:	0	1	2	3	4
13. Participating in active play or exercise:	0	1	2	3	4
14. Lifting something heavy:	0	1	2	3	4
15. Bathing:	0	1	2	3	4
16. Helping to pick up his or her toys:	0	1	2	3	4
17. Having hurts or aches:	0	1	2	3	4
18. Low energy level:	0	1	2	3	4

EMOTIONAL FUNCTIONING <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
19. Feeling afraid or scared:	0	1	2	3	4
20. Feeling sad or blue:	0	1	2	3	4
21. Feeling angry:	0	1	2	3	4
22. Trouble sleeping:	0	1	2	3	4
23. Worrying:	0	1	2	3	4

SOCIAL FUNCTIONING <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
24. Playing with other children:	0	1	2	3	4
25. Other kids not wanting to play with him/her:	0	1	2	3	4
26. Getting teased by other children:	0	1	2	3	4
27. Not able to do things that other children his or her age can do:	0	1	2	3	4
28. Keeping up when playing with other children:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

**\*Please complete this section if your child attends school or daycare**

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Doing the same school activities as peers:	0	1	2	3	4
<b>30.</b> Missing school/daycare because of not feeling well:	0	1	2	3	4
<b>31.</b> Missing school/daycare to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PV – Pediatric Quality of Life:  
Young Child Report (Age 5-7)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Clinical Coordinator.

**Respondent:** Patient, age 5-7.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-4. The Clinical Coordinator should interview the child following the instructions on page 2 and using Flash Card #11, Template for Pediatric Quality of Life (Form PV). Page 1 should be re-attached to pages 2-4 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:  p v 1

7. Study: NAFLD Database  1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Interview in English ( )  
Interview with translator ( )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## PV - Pediatric Quality of Life: Young Child Report (Age 5-7)

<i>Affix label here</i>	
Patient ID:	___ ___ ___
Patient code:	___ ___ ___
Visit code:	___ ___ ___

Instructions for interviewer:

**I am going to ask you some questions about things that might be a problem for some children. I want to know how much of a problem any of these things might be for you.**

Show child the template and point to the responses as you read.

**If it is not at all a problem for you, point to the smiling face**

**If it is sometimes a problem for you, point to the middle face**

**If it is a problem for you a lot, point to the frowning face**

**I will read each question. Point to the pictures to show me how much of a problem it is for you. Let's try a practice one first.**

	Not at all	Sometimes	A lot
<b>It is hard for you to snap your fingers</b>	>	?	@

Ask the child to demonstrate snapping his or her fingers to determine whether or not the question was answered correctly. Repeat the question if the child demonstrates a response that is different from his or her action.

## PV - Pediatric Quality of Life: Young Child Report (Age 5-7)

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

**Think about how you have been doing for the last few weeks. Please listen carefully to each sentence and tell me how much of a problem this is for you.**

After reading the item, gesture to the template. If the child hesitates or does not seem to understand how to answer, read the response options while pointing at the faces.

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Not at all</b>	<b>Sometimes</b>	<b>A lot</b>
11. It is hard for you to walk:	0	2	4
12. It is hard for you to run:	0	2	4
13. It is hard for you to play sports or exercise:	0	2	4
14. It is hard for you to pick up big things:	0	2	4
15. It is hard for you to take a bath or shower:	0	2	4
16. It is hard for you to do chores (like pick up your toys):	0	2	4
17. Do you have hurts or aches ( <b>Where?</b> _____):	0	2	4
18. Do you ever feel too tired to play:	0	2	4

<b>ABOUT MY FEELINGS</b> ( <i>problems with...</i> )	<b>Not at all</b>	<b>Sometimes</b>	<b>A lot</b>
19. Do you feel scared:	0	2	4
20. Do you feel sad:	0	2	4
21. Do you feel mad:	0	2	4
22. Do you have trouble sleeping:	0	2	4
23. Do you worry about what will happen to you:	0	2	4

<b>HOW I GET ALONG WITH OTHERS</b> ( <i>problems with...</i> )	<b>Not at all</b>	<b>Sometimes</b>	<b>A lot</b>
24. Is it hard for you to get along with other kids:	0	2	4
25. Do other kids say they do not want to play with you:	0	2	4
26. Do other kids tease you:	0	2	4
27. Can other kids do things that you cannot do:	0	2	4
28. It is hard for you to keep up when you play with other kids:	0	2	4

*Affix label here*

Pt ID: \_\_\_\_\_

Pt code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>ABOUT SCHOOL</b> ( <i>problems with...</i> )	<b>Not at all</b>	<b>Sometimes</b>	<b>A lot</b>
<b>29.</b> It is hard for you to pay attention in school:	0	2	4
<b>30.</b> Do you forget things:	0	2	4
<b>31.</b> Is it hard to keep up with schoolwork:	0	2	4
<b>32.</b> Do you miss school because of not feeling good:	0	2	4
<b>33.</b> Do you miss school because you have to go to the doctor's or hospital:	0	2	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PW – Pediatric Quality of Life:  
Child Report (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The patient should meet with the Clinical Coordinator and should be trained in completion of the form. Give the patient Flash Card #9, Instructions for Pediatric Quality of Life (Forms PW and PY) and review the instructions with the patient. The patient should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   p     w     1
7. Study: NAFLD Database   1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## PW - Pediatric Quality of Life: Child Report (Age 8-12)

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has this been for you...

ABOUT MY HEALTH AND ACTIVITIES <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
11. It is hard for me to walk more than one block:	0	1	2	3	4
12. It is hard for me to run:	0	1	2	3	4
13. It is hard for me to do sports activity or exercise:	0	1	2	3	4
14. It is hard for me to lift something heavy:	0	1	2	3	4
15. It is hard for me to take a bath or shower by myself:	0	1	2	3	4
16. It is hard for me to do chores around the house:	0	1	2	3	4
17. I hurt or ache:	0	1	2	3	4
18. I have low energy:	0	1	2	3	4

ABOUT MY FEELINGS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
19. I feel afraid or scared:	0	1	2	3	4
20. I feel sad or blue:	0	1	2	3	4
21. I feel angry:	0	1	2	3	4
22. I have trouble sleeping:	0	1	2	3	4
23. I worry about what will happen to me:	0	1	2	3	4

HOW I GET ALONG WITH OTHERS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
24. I have trouble getting along with other kids:	0	1	2	3	4
25. Other kids do not want to be my friend:	0	1	2	3	4
26. Other kids tease me:	0	1	2	3	4
27. I cannot do things that other kids my age can do:	0	1	2	3	4
28. It is hard to keep up when I play with other kids:	0	1	2	3	4



*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>ABOUT SCHOOL</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## NAFLD Database

**PY – Pediatric Quality of Life:  
Teen Report (Age 13-17)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, age 13-17.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The patient should meet with the Clinical Coordinator and should be trained in completion of the form. Give the patient Flash Card #9, Instructions for Pediatric Quality of Life (Forms PY and PW) and review the instructions with the patient. The patient should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   p     y     1
7. Study: NAFLD Database   1

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English (   1   )  
 Self-administered in Spanish (   2   )  
 Interview in English (   3   )  
 Interview in Spanish (   4   )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**PY - Pediatric Quality of Life:  
Adolescent (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has this been for you...

<b>ABOUT MY HEALTH AND ACTIVITIES</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> It is hard for me to walk more than one block:	0	1	2	3	4
<b>12.</b> It is hard for me to run:	0	1	2	3	4
<b>13.</b> It is hard for me to do sports activity or exercise:	0	1	2	3	4
<b>14.</b> It is hard for me to lift something heavy:	0	1	2	3	4
<b>15.</b> It is hard for me to take a bath or shower by myself:	0	1	2	3	4
<b>16.</b> It is hard for me to do chores around the house:	0	1	2	3	4
<b>17.</b> I hurt or ache:	0	1	2	3	4
<b>18.</b> I have low energy:	0	1	2	3	4

<b>ABOUT MY FEELINGS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> I feel afraid or scared:	0	1	2	3	4
<b>20.</b> I feel sad or blue:	0	1	2	3	4
<b>21.</b> I feel angry:	0	1	2	3	4
<b>22.</b> I have trouble sleeping:	0	1	2	3	4
<b>23.</b> I worry about what will happen to me:	0	1	2	3	4

<b>HOW I GET ALONG WITH OTHERS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> I have trouble getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens do not want to be my friend:	0	1	2	3	4
<b>26.</b> Other teens tease me:	0	1	2	3	4
<b>27.</b> I cannot do things that other teens my age can do:	0	1	2	3	4
<b>28.</b> It is hard to keep up with my peers:	0	1	2	3	4

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

<b>ABOUT SCHOOL</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

**Purpose:** To obtain the patient's views of his/her health.

**When:** Visits s2, f048, f096, f144, and f192.

**Administered by:** Self-administered, but Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, 18 years or age or older, without help from spouse or family.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to each of pages 2-7.

**Screening:** The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-7. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-7 and the Clinical Coordinator should complete section B below. **Followup:** Pages 2-7 should be mailed to the patient 2 weeks prior to the scheduled study visit with instructions to complete the form at home and to bring the completed form to the next study visit. When the patient returns for the visit, the Clinical Coordinator should review the form for completeness and obtain responses for missing items during the visit. If the patient did not bring a completed form to the visit, the patient should complete the form at the visit. Page 1 should be attached to pages 2-7 and the Clinical Coordinator should complete section B below. Fill in item 4 with the date the patient wrote in item 21. If the patient did not write in a date, use the date of the study visit for the visit date.

#### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*): \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:   q     f     1  

7. Study: NAFLD DATABASE   1  

#### B. Administrative information

*(To be completed by clinical center staff after survey is completed.)*

8. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

9. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

## QF - MOS 36-Item Short-Form Health Survey

**Instructions:** This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities.

*(Items 1-9 are reserved for clinical center use.)*

**10.** In general, would you say your health is:

**Circle one**

- |                 |   |
|-----------------|---|
| Excellent ..... | 1 |
| Very good ..... | 2 |
| Good .....      | 3 |
| Fair .....      | 4 |
| Poor .....      | 5 |

**11.** Compared to one year ago, how would you rate your health in general now?

- |   |   |
|---|---|
| Much better now than one year ago .....     | 1 |
| Somewhat better now than one year ago ..... | 2 |
| About the same .....                        | 3 |
| Somewhat worse now than one year ago .....  | 4 |
| Much worse now than one year ago .....      | 5 |

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

12. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Activities	Circle one		
	Yes, limited a lot	Yes, limited a little	No, not limited at all
a. Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports:	1	2	3
b. Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf:	1	2	3
c. Lifting or carrying groceries:	1	2	3
d. Climbing several flights of stairs:	1	2	3
e. Climbing one flight of stairs:	1	2	3
f. Bending, kneeling, or stooping:	1	2	3
g. Walking more than a mile:	1	2	3
h. Walking several blocks:	1	2	3
i. Walking one block:	1	2	3
j. Bathing or dressing yourself:	1	2	3

13. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

	Circle one	
	Yes	No
a. Cut down on the amount of time you spent on work or other activities:	1	2
b. Accomplished less than you would like:	1	2
c. Were limited in the kind of work or other activities:	1	2
d. Had difficulty performing the work or activities (for example, it took extra effort):	1	2

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

14. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

	<b>Circle one</b>	
	<b>Yes</b>	<b>No</b>
a. Cut down on the amount of time you spent on work or other activities:	1	2
b. Accomplished less than you would like:	1	2
c. Didn't do work or other activities as carefully as usual:	1	2

15. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

- Circle one**
- Not at all ..... 1
- Slightly ..... 2
- Moderately ..... 3
- Quite a bit ..... 4
- Extremely ..... 5

16. How much bodily pain have you had during the past 4 weeks?

- None ..... 1
- Very mild ..... 2
- Mild ..... 3
- Moderate ..... 4
- Severe ..... 5
- Very severe ..... 6



*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

17. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

**Circle one**

- Not at all ..... 1
- A little bit ..... 2
- Moderately ..... 3
- Quite a bit ..... 4
- Extremely ..... 5

18. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks:

	<b>Circle one</b>					
	<b>All of the time</b>	<b>Most of the time</b>	<b>A good bit of the time</b>	<b>Some of the time</b>	<b>A little of the time</b>	<b>None of the time</b>
a. Did you feel full of pep?	1	2	3	4	5	6
b. Have you been a very nervous person?	1	2	3	4	5	6
c. Have you felt so down in the dumps that nothing could cheer you up?	1	2	3	4	5	6
d. Have you felt calm and peaceful?	1	2	3	4	5	6
e. Did you have a lot of energy?	1	2	3	4	5	6
f. Have you felt downhearted and blue?	1	2	3	4	5	6
g. Did you feel worn out?	1	2	3	4	5	6
h. Have you been a happy person?	1	2	3	4	5	6
i. Did you feel tired?	1	2	3	4	5	6

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

19. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

**Circle one**

- All of the time ..... 1
- Most of the time ..... 2
- Some of the time ..... 3
- A little of the time ..... 4
- None of the time ..... 5

20. How TRUE or FALSE is *each* of the following statements for you.

	<b>Circle one</b>				
	<b>Definitely true</b>	<b>Mostly true</b>	<b>Don't know</b>	<b>Mostly false</b>	<b>Definitely false</b>
a. I seem to get sick a little easier than other people	1	2	3	4	5
b. I am as healthy as anybody I know	1	2	3	4	5
c. I expect my health to get worse	1	2	3	4	5
d. My health is excellent	1	2	3	4	5

21. Today's date:

\_\_\_\_\_

**Thank you for completing this survey. Please bring this completed survey with you to your scheduled NASH CRN study visit.**





**16.** Highest educational level achieved by patient (*show the patient/parent Flash Card #3 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never attended school ( 0 )
- Kindergarten, pre kindergarten, or younger ( 1 )
- Grades 1 to 5 ( 2 )
- Grades 6-8 ( 3 )
- Grades 9-11 ( 4 )
- Completed high school ( 5 )
- Some college or post high school education or training ( 6 )
- Bachelor's degree or higher ( 7 )

**17.** Is the patient currently employed:

- Yes ( 1 )      No ( 2 )  
**20.**

**18.** What is the patient's current occupation:

\_\_\_\_\_ specify occupation

**19.** About how many hours does the patient work each week: \_\_\_\_\_

# hours

**20.** Which of the following categories best characterizes the patient's occupational history (*show the patient/parent Flash Card #4 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never employed ( 0 )
- Laborer ( 1 )
- Clerical ( 2 )
- Professional ( 3 )
- Homemaker ( 4 )
- Other, (*specify*): ( 5 )

\_\_\_\_\_ specify

**21.** Marital status of the patient (*show the patient/parent Flash Card #5 and ask the respondent to pick the category that describes the patient best; check only one*):

- Single, never married ( 1 )
- Married or living in marriage-like relationship ( 2 )
- Separated, divorced, or annulled ( 3 )
- Widowed ( 4 )

**22.** Combined annual income before taxes of all members of patient's household (*show the patient/parent Flash Card #6 and ask the respondent to pick the category that describes the patient's combined household income best; check only one*):

- Less than \$15,000 ( 1 )
- \$15,000 - \$29,999 ( 2 )
- \$30,000 - \$49,999 ( 3 )
- \$50,000 or more ( 4 )

**23.** Is the patient under age 18:

- Yes ( 1 )      No ( 2 )

**28.**

**24.** Current age of patient's mother, stepmother, or female guardian (*show patient/parent Flash Card #7; check only one*):

- Not applicable (mother is deceased or patient has no stepmother or female guardian) ( 0 )
- 19 or younger ( 1 )
- 20-29 years ( 2 )
- 30-39 years ( 3 )
- 40-49 years ( 4 )
- 50-59 years ( 5 )
- 60 years or older ( 6 )

**25.** Highest educational level achieved by patient's mother, stepmother, or female guardian (*show patient/parent Flash Card #8; if education of mother or female guardian is unknown, record as "n"; check only one*):

- Never attended school ( 0 )
- Did not complete high school ( 1 )
- Completed high school ( 2 )
- Some college or post high school education or training ( 3 )
- Bachelor's degree or higher ( 4 )

**26.** Current age of patient's father, stepfather, or male guardian (*show patient/parent Flash Card #7; check only one*):

- Not applicable (father is deceased or patient has no stepfather or male guardian) ( 0 )
- 19 or younger ( 1 )
- 20-29 years ( 2 )
- 30-39 years ( 3 )
- 40-49 years ( 4 )
- 50-59 years ( 5 )
- 60 years or older ( 6 )

**27.** Highest educational level achieved by patient's father, stepfather, or male guardian (*show patient/parent Flash Card #8; if education of father or male guardian is unknown, record as "n"; check only one*):

- Never attended school ( 0 )
- Did not complete high school ( 1 )
- Completed high school ( 2 )
- Some college or post high school education or training ( 3 )
- Bachelor's degree or higher ( 4 )

**D. Source of patient**

(*clinic staff should pick the best description of the source of the patient*)

**28.** Source of patient (*check only one*):

- Bariatric surgery clinic ( 01 )
- Current patient of NASH CRN investigator ( 02 )
- Diabetes clinic ( 03 )
- GI/liver clinic ( 04 )
- HMO-based ( 05 )
- Internal medicine clinic ( 06 )
- Lipid disorders clinic ( 07 )
- Liver transplant clinic ( 08 )
- Obesity clinic ( 09 )
- Pediatric clinic ( 10 )
- Pediatric weight disorders clinic ( 11 )
- Primary care clinic ( 12 )
- Self referral ( 13 )
- Other, (*specify*): ( 14 )

\_\_\_\_\_ specify

**E. Previous registration in a NASH CRN study**

**29.** Has the patient ever been assigned an ID number in a NASH CRN study:

- ( Yes ( 1 ) )
- ( No ( 2 ) )

**33.** \_\_\_\_\_

**30.** In which NASH CRN studies has the patient previously been registered (*check all that apply*):

- a. PIVENS: ( 1 )
- b. TONIC: ( 1 )
- c. Other, (*specify*): ( 1 )

\_\_\_\_\_ specify

**31.** ID Number previously assigned to patient (*record patient ID in item 2*):

\_\_\_\_\_

**32.** Code previously assigned to patient (*record patient code in item 3*):

\_\_\_\_\_

**34.** \_\_\_\_\_

**F. ID assignment**

(*If a STOP condition was checked in section B, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.*)

**33.** Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC    #####, zzz

**G. Administrative information**

**34.** Clinical Coordinator PIN: \_\_\_\_\_

**35.** Clinical Coordinator signature: \_\_\_\_\_

**36.** Date form reviewed: \_\_\_\_\_  
 day                      mon                      year

## NAFLD Database

## SD - Liver Biopsy Materials Documentation

**Purpose:** This form is used **only for biopsies done after Database registration** (i.e., during baseline or followup), or for pre-registration biopsies whose slides were obtained after enrollment. Use forms SE and SF for biopsies done prior to registration in the Database. To document whether liver tissue was obtained for banking and whether the biopsy is adequate for scoring; if adequate for scoring, the number and type of slides available for archival at the DCC is noted. If slides cannot be archived at the DCC, the source of the slides and the date by which the slides that must be returned to the clinical center are recorded.

**When:** As needed during baseline (visit s1) and followup (visits f024, f048, f096, f144, f192). During followup, specify the code for the followup visit that is currently open (check the patient's visit time window guide). If no window is open (i.e., right after enrollment), or if slides are from a biopsy done prior to registration but were not available until after enrollment, use visit code "n".

**By whom:** Clinical Coordinator in consultation with the Study Pathologist.

**Instructions:** This form is used to document acquisition of tissue and slides from liver biopsies done after Database registration (during screening and followup). The SD form provides information about the tissue and slides from the reported biopsy and alerts the DCC to expect completion of the Liver Tissue Banking (LT) form, receipt of tissue at the Biosample Repository, and receipt of slides from the biopsy at the DCC. It also provides a record of the source of the slides, the number and type of stained slides available for review at the clinical center, the need (if any) to borrow those stained slides or provision of those stained slides to the NASH CRN without requiring return of the slides, and the number of unstained slides to be provided to the NASH CRN. A copy of the original surgical pathology report for the biopsy must be obtained; the patient's name should be blacked out, the report should be annotated with the patient's NASH CRN ID number and ID code (use labels provided - PATH or PRpt), and the annotated report should be stapled to the back of this form. The surgical pathology report documents the date of biopsy. The slides should be labeled using the labels provided by the DCC. For unstained slides use permanent labels with sequence numbers 01-60; the borrowed slides should be labeled on the back of the slide with removable labels with sequence numbers 81-90.

## A. Center, patient and visit identification

1. Center code: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code (*s1* or code for followup visit that is currently open): \_\_\_\_\_

6. Form & revision: \_\_\_\_\_ s \_\_\_\_\_ d \_\_\_\_\_ 3

7. Study: NAFLD Database 1

## B. Surgical pathology report

8. Was a copy of the surgical pathology report for the biopsy obtained:  
 Yes ( + )      No ( \* )

26. \_\_\_\_\_

+ Annotate the report with the patient's NASH CRN ID number and code (you may use one of the pathology labels), black out the patient's name, and attach the report to this form.

\* This biopsy cannot be used for the NAFLD Database.

## 9. Biopsy information

a. Date of biopsy specified on the surgical pathology report:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

b. Lobe specimen obtained from (check only one):  
 Right ( )  
 Left ( )  
 Unknown ( )

**C. Biopsy specimens and stained slides at the clinical center**

10. Was a sample of liver tissue obtained for banking:

Yes ( \* 1 )      No ( 2 )

\* If Yes, complete the Liver Tissue Banking (LT) form

11. Is this visit s1 (ie, a patient currently in screening):

Yes ( 1 )      No ( 2 )

14.

12. Were you able to obtain stained slides from this biopsy for local evaluation and were they adequate for scoring:

Yes ( + 1 )      No ( \* 2 )

26.

+ Continue with this form and also complete form HF.

\* This biopsy cannot be used for the NAFLD Database.

13. What stained slides from the biopsy are available for local evaluation (check all that apply)

a. H & E stain: ( 1 )

b. Masson's trichrome stain: ( 1 )

**D. Unstained slides to be sent to the DCC**

14. Are unstained slides available for sending to the DCC:

Yes ( 1 )      No ( 2 )

17.

15. How many unstained slides will be sent to the DCC: \_\_\_\_\_

16. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60)

a. Slide sequence number: \_\_\_\_\_  
01-60

b. Slide sequence number: \_\_\_\_\_  
01-60

c. Slide sequence number: \_\_\_\_\_  
01-60

d. Slide sequence number: \_\_\_\_\_  
01-60

e. Slide sequence number: \_\_\_\_\_  
01-60

f. Slide sequence number: \_\_\_\_\_  
01-60

g. Slide sequence number: \_\_\_\_\_  
01-60

h. Slide sequence number: \_\_\_\_\_  
01-60

i. Slide sequence number: \_\_\_\_\_  
01-60

j. Slide sequence number: \_\_\_\_\_  
01-60

**E. Stained slides to be sent to the DCC**

17. Is the institution's H & E stained slide to be sent to the DCC:

Yes ( 1 )      No ( 2 )

20.

18. Slide sequence number for this slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_ 81-90

19. Is the H & E stained slide to be returned to the clinical center:

Yes ( 1 )      No ( 2 )

20. Is the institution's Masson's trichrome stained slide to be sent to the DCC:

Yes ( 1 )      No ( 2 )

23.

21. Slide sequence number for slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_ 81-90



22. Is the Masson's trichrome slide to be returned to the clinical center:  
( Yes ) ( No )  
( 1 ) ( 2 )

23. Is at least one of the stained slides to be returned to the clinical center (i.e., either item 19 = yes or item 22 = yes):  
( Yes ) ( No )  
( 1 ) ( 2 )

26.

24. When do the stained slides need to be returned to the clinical center (check only one):  
Immediately after central review ( 1 )

At the end of the NASH CRN funding period ( 2 )

25. Which pathology department did these slides come from (check only one):  
NASH CRN clinical center's pathology department ( 1 )

Other, (specify): ( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the Database's record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**F. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Date form reviewed:  
\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_  
day mon year



**D. Unstained slides to be sent to the DCC**

12. Are unstained slides available for sending to the DCC:

Yes ( 1 )       No ( 2 )

**15.**

13. How many unstained slides will be sent to the DCC: \_\_\_\_\_

14. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60)

- a. Slide sequence number: \_\_\_\_\_  
01-60
- b. Slide sequence number: \_\_\_\_\_  
01-60
- c. Slide sequence number: \_\_\_\_\_  
01-60
- d. Slide sequence number: \_\_\_\_\_  
01-60
- e. Slide sequence number: \_\_\_\_\_  
01-60
- f. Slide sequence number: \_\_\_\_\_  
01-60
- g. Slide sequence number: \_\_\_\_\_  
01-60
- h. Slide sequence number: \_\_\_\_\_  
01-60
- i. Slide sequence number: \_\_\_\_\_  
01-60
- j. Slide sequence number: \_\_\_\_\_  
01-60

**E. Stained slides to be sent to the DCC**

15. Is the institution's H & E stained slide to be sent to the DCC:

Yes ( 1 )       No ( 2 )

**18.**

16. Slide sequence number for this slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_

81-90

17. Is the H & E stained slide to be returned to the clinical center:

Yes ( 1 )       No ( 2 )

18. Is the institution's Masson's trichrome stained slide to be sent to the DCC:

Yes ( 1 )       No ( 2 )

**21.**

19. Slide sequence number for slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_

81-90

20. Is the Masson's trichrome slide to be returned to the clinical center:

Yes ( 1 )       No ( 2 )

21. Is at least one of the stained slides to be returned to the clinical center (i.e., either item 17 = yes or item 20 = yes):

Yes ( 1 )       No ( 2 )

**24.**

22. When do the stained slides need to be returned to the clinical center (check only one):

Immediately after central review  ( 1 )

At the end of the NASH CRN funding period  ( 2 )

23. Which pathology department did these slides come from (check only one):

NASH CRN clinical center's pathology department  ( 1 )

Other, (specify):  ( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the Database's record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**F. Administrative information**

24. Clinical Coordinator PIN: \_\_\_\_\_

25. Clinical Coordinator signature:  
\_\_\_\_\_

26. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year



**D. Unstained slides to be sent to the DCC**

12. Are unstained slides available for sending to the DCC: (Yes) (No)  
( 1 ) ( 2 )  
15.

13. How many unstained slides will be sent to the DCC: \_\_\_\_\_

14. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60)

a. Slide sequence number: \_\_\_\_\_  
01-60

b. Slide sequence number: \_\_\_\_\_  
01-60

c. Slide sequence number: \_\_\_\_\_  
01-60

d. Slide sequence number: \_\_\_\_\_  
01-60

e. Slide sequence number: \_\_\_\_\_  
01-60

f. Slide sequence number: \_\_\_\_\_  
01-60

g. Slide sequence number: \_\_\_\_\_  
01-60

h. Slide sequence number: \_\_\_\_\_  
01-60

i. Slide sequence number: \_\_\_\_\_  
01-60

j. Slide sequence number: \_\_\_\_\_  
01-60

**E. Stained slides to be sent to the DCC**

15. Is the institution's H & E stained slide to be sent to the DCC: (Yes) (No)  
( 1 ) ( 2 )  
18.

16. Slide sequence number for this slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90): \_\_\_\_\_  
81-90

17. Is the H & E stained slide to be returned to the clinical center: (Yes) (No)  
( 1 ) ( 2 )

18. Is the institution's Masson's trichrome stained slide to be sent to the DCC: (Yes) (No)  
( 1 ) ( 2 )  
21.

19. Slide sequence number for slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90): \_\_\_\_\_  
81-90

20. Is the Masson's trichrome slide to be returned to the clinical center: (Yes) (No)  
( 1 ) ( 2 )

21. Is at least one of the stained slides to be returned to the clinical center (i.e., either item 17 = yes or item 20 = yes): (Yes) (No)  
( 1 ) ( 2 )  
24.

22. When do the stained slides need to be returned to the clinical center (check only one):  
Immediately after central review ( 1 )  
At the end of the NASH CRN funding period ( 2 )

23. Which pathology department did these slides come from (check only one):  
NASH CRN clinical center's pathology department ( 1 )  
Other, (specify): ( 2 )  
24.

\_\_\_\_\_ name  
\_\_\_\_\_ address  
\_\_\_\_\_ address  
\_\_\_\_\_ address  
\_\_\_\_\_ phone

*Note: this is the Database's record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**F. Administrative information**

24. Clinical Coordinator PIN: \_\_\_\_\_

25. Clinical Coordinator signature:  
\_\_\_\_\_

26. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## NAFLD Database

## Transfer Notification

**Purpose:** To record a transfer from one center to another center.

**When:** Upon transferring from the current center and prior to the first visit at the adopting center.

**By whom:** Clinical coordinator of each center (current center: sections A-C, adopting center: sections D-E).

**Instruction: For current center:** When patient notifies current center of upcoming transfer, the current clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recent completed HI, LR, and PE/PF forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0932). The DCC will key the form.

**A. Current center and patient identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of notification of intent to transfer:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code: \_\_\_\_\_

6. Form & revision:                        t     n     1  

7. Study:                      NAFLD Database   1  

**B. Last followup visit information**

8. Date of last followup visit:  
 \_\_\_\_\_  
 day                      mon                      year

9. Visit ID code of last completed followup visit:  
 \_\_\_\_\_

10. Have cryovial and slide labels been sent to the adopting center:

(   1   )<sup>Yes</sup>                      (   \*2   )<sup>No</sup>

\* Send the cryovial and slide labels to the adopting center.

**C. Current center administrative information**

11. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

12. Clinical coordinator ID: \_\_\_\_\_

13. Clinical coordinator signature:  
 \_\_\_\_\_

**D. Adopting center, patient and visit identification**

14. Adopting center ID: \_\_\_\_\_

15. Patient ID (*must be same as in Section A*):  
 \_\_\_\_\_

16. Patient code (*must be same as in Section A*):  
 \_\_\_\_\_

17. Expected date of first followup visit at adopting center:  
 \_\_\_\_\_  
 day                      mon                      year

18. Visit ID code for expected first followup visit at adopting center:  
 \_\_\_\_\_

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.*

**E. Adopting center administrative information**

19. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

20. Clinical coordinator ID: \_\_\_\_\_

21. Clinical coordinator signature:  
 \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*



# NASH CRN PIVENS

## PIVENS Form Abbreviations and Case Report Form Names

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Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
AN	Serious Adverse Event Report
BC	Blood Collection for DNA
BD	Food Questionnaire Documentation
BG	Baseline History
BP	Blood Processing for Plasma and Serum
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
DD	DEXA Scan for Bone Mineral Density
DR	Death Report
DX	DEXA Scan for Body Fat
EC	Eligibility Checklist
HF	Liver Biopsy Histology Findings
HI	Follow-up Medical History
HS	Steatohepatitis Determination – 1 <sup>st</sup> Reading
HT	Steatohepatitis Determination –2 <sup>nd</sup> Reading
IE	Interim Event Report
LD	Lifetime Drinking History (Skinner)
LQ	Symptoms of Liver Disease
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
LU	Laboratory Results - Tests Required at Visit s2
MV	Missed or Incomplete Visit
PA	Physical Activity
PE	Physical Examination
PF	Focused Physical Examination
QF	MOS 36-Item Short-Form Health Survey
RC	Rescreen Form
RD	Study Drug Dispensing and Return

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RG	Registration
SD	Liver Biopsy Materials Documentation
TN	Transfer Notification

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## PIVENS

## AD – Alcohol Use Disorders Identification Test (AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Visit s1.

**Administered by:** Self-administered, but Clinical Coordinator must be available to answer questions and review the completed form.

**Respondent:** Patient without help from spouse or family.

**Instructions:** Flash card #7, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to page 2-3 and the Clinical Coordinator then should complete section B below.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

\_\_\_\_\_ day - \_\_\_\_\_ mon - \_\_\_\_\_ year

5. Visit code:   s     1   \_\_\_\_\_

6. Form & revision:   a     d     1  

7. Study: PIVENS   2  

### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. Clinical Coordinator PIN: \_\_\_\_\_

9. Clinical Coordinator signature: \_\_\_\_\_

10. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ day - \_\_\_\_\_ mon - \_\_\_\_\_ year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-9 are for clinic use only*).

**11.** How often do you have a drink containing alcohol?

Never	Monthly or less	Two to four times a month	Two to three times a week	Four or more times a week
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

↳ **21.**

**12.** How many drinks containing alcohol do you have on a typical day when you are drinking?

1 or 2	3 or 4	5 or 6	7 to 9	10 or more
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**13.** How often do you have six or more drinks on one occasion?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**14.** How often during the last year have you found that you were not able to stop drinking once you had started?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**15.** How often during the last year have you failed to do what was normally expected from you because of drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**16.** How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**17.** How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**18.** How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

**19.** Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

**20.** Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )


**21.** Today's date: \_\_\_\_\_

**Thank you for completing this questionnaire.**



**C. Adverse event description**

**14.** Is the adverse event associated with PIVENS study drugs both **serious and unexpected**:

( Yes ) ( No )  
( \* 1 ) ( \* 2 )  


*\*A written IND Safety Report will be submitted to the FDA within 15 calendar days by the Project Officer in collaboration with the submitting clinical center and Data Coordinating Center.*

*†Use PIVENS forms HI, IE, and LR to report adverse events that are not serious, not associated with either series of PIVENS study drugs, or are expected. Do not key this form.*

**15.** Is the adverse event due to the pioglitazone-series study drug:

Definitely yes ( 1 )  
Probably yes ( 2 )  
Possibly yes ( 3 )  
Probably no ( \* 4 )  
Definitely no ( \* 5 )

**16.** Is the adverse event due to the vitamin E-series study drug:

Definitely yes ( 1 )  
Probably yes ( 2 )  
Possibly yes ( 3 )  
Probably no ( \* 4 )  
Definitely no ( \* 5 )

*\*If both items 15 and 16 are "no," use PIVENS forms HI, IE, and LR to report adverse events that are not serious, not associated with either series of PIVENS study drugs, or are expected. Do not key this form.*

**17.** Date of event onset:

\_\_\_\_ day      \_\_\_\_ mon      \_\_\_\_ year

**18.** Date event was reported to center:

\_\_\_\_ day      \_\_\_\_ mon      \_\_\_\_ year

**19.** Describe the event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**20.** Non-study medications or supplements in use at the time of event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**21.** Specify tests/treatments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**22.** Was an unscheduled liver biopsy performed:

( Yes ) ( No )  
( \* 1 ) ( 2 )

*\*Attach a copy of the institutional pathology report to the AN form.*

**23.** Did the event result in significant sequelae:

( Yes ) ( No )  
( 1 ) ( 2 )

**24.**

*Specify:*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**24.** Is this the first report or a followup report for this adverse event:

First report ( 1 )  
Followup report ( 2 )



25. Short name for adverse event (*short names for AEs are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents*):

\_\_\_\_\_  
\_\_\_\_\_

30. Additional comments on adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

26. Severity grade (*severity grades are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents; use other PIVENS forms to report adverse events of Grade 1 (mild) or Grade 2 (moderate); call the DCC if unsure what to do*):

- Grade 3 - Severe (  )
- Grade 4 - Life threatening or disabling (  )
- Grade 5 - Death (  )

27. Did the event result in any of the following (*check all that apply*)

- a. Emergency department/urgent care visit: (  )
- b. Hospital admission or prolonged hospital stay: (  )
- c. Significant or persistent disability: (  )
- d. Congenital anomaly or birth defect: (  )
- e. Death: (  )
- f. Other significant hazard or harm: (  )

\_\_\_\_\_  
\_\_\_\_\_

g. None of the above (  )

28. Current status of adverse event (*check only one*):

- Resolved (  )
- Active (  )
- Unknown (  )

30.

30.

29. Date resolved:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**D . Administrative information**

31. Study Physician PIN: \_\_\_\_\_

32. Study Physician signature: \_\_\_\_\_

33. Clinical Coordinator PIN: \_\_\_\_\_

34. Clinical Coordinator signature: \_\_\_\_\_

35. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

*Key this form and send the DCC:*

- (1) A copy of this form
- (2) A narrative description of the event
- (3) A copy of your report to your IRB.

## PIVENS

## BC - Blood Collection for DNA

**Purpose:** Document the collection of whole blood for shipment to NIDDK Genetics Repository at Rutgers University for DNA extraction. Complete this form only if the patient signed the consent for genetic research.

**When:** Visit s2, rz, and as needed during followup. You can complete only one BC form prior to randomization. If a redraw of blood is necessary prior to randomization, revise the existing BC form to reflect the most recent blood draw for DNA banking. If redraw is necessary on the day of randomization, complete the BC form with visit code rz but hold the form for keying until after the patient has been randomized (you will not be able to key the form until after the patient has been randomized). If redraw is done after randomization or if the initial draw for DNA is done after randomization (eg, a patient who previously refused consent changes their mind to allow DNA banking), use the visit code for the followup visit whose time window is open. If redraw is done so soon after randomization that a followup visit window is not open, use visit code n.

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection of whole blood.

**Instructions:** (1) Fill two 10 mL EDTA vacutainer tubes with whole blood. (2) Pack and ship the whole blood in the EDTA tubes to the NIDDK Genetics Repository at Rutgers University on the same day blood is collected. Ship at ambient room temperature. Ship whole blood in the specimen shippers supplied by the NIDDK Genetics Repository.


## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  b c 1
7. Study:  PIVENS 2

## B. Check on consent

8. Did the patient consent to blood draw for DNA extraction:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )



\* You cannot proceed until you get consent.

9. Did the patient previously provide blood for DNA banking in the NAFLD Database:

( Yes ) ( No )  
 ( 1 ) ( 2 )

15. \_\_\_\_\_

## C. Specimen for Genetics Repository

Attach ID labels to two 10mL EDTA tubes and fill each with whole blood; invert each tube gently 6 times to mix blood with additives; keep tubes at room temperature until the same day shipment to the NIDDK Genetics Repository.

10. Was blood collected for the NIDDK Genetics Repository:

Yes ( 1 )

No, (specify): ( 2 )

\_\_\_\_\_ specify

15. \_\_\_\_\_

11. Date and time of blood draw

a. Date: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

b. Time: \_\_\_\_\_ : \_\_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

12. Number of 10 mL EDTA tubes: \_\_\_\_\_

13. Form copy of tube labels:

PIVENS Form BC
Pt: ccc- 9999, xyz
Gender
Age, yrs.: XX

14. Phlebotomist:

\_\_\_\_\_ print name

**D. Administrative information**

15. Clinical Coordinator PIN: \_\_\_\_\_

16. Clinical Coordinator signature:  
\_\_\_\_\_

17. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**PIVENS****BD - Food Questionnaire Documentation**

**Purpose:** To document completion of the food questionnaire.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form after the patient has completed the Block Food Questionnaire. The Block food questionnaire booklets should be sent to the DCC once a month with the completed TB form.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed (*date food questionnaire booklet is completed*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:                  b     d     1  

7. Study:                                PIVENS   2  

**B. Administration of food questionnaire**

8. Form copy of label applied to food questionnaire:

<i>PIVENS Form BD</i> <i>Pt: 9999,xyz</i> <i>Visit: vvvv</i> <i>Date: _____</i>
--

**C. Administrative information**

9. Clinical Coordinator PIN: \_\_\_\_\_

10. Clinical Coordinator signature:

\_\_\_\_\_

11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

## PIVENS

## BG - Baseline History

**Purpose:** To collect baseline history information about the patient.

**When:** Visit s1.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Respondent:** Patient.

**Instructions:** Collect information by interview or chart review. If  is checked for an item, use caution. If the physician agrees with the diagnosis, the patient is ineligible for PIVENS. If  is checked for an item, the patient is ineligible and cannot enroll in PIVENS. The form should not be keyed to the data system, but the form should be retained; set aside with forms for other patients who started screening, but were found to be ineligible.

### A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                s 1 \_\_\_\_\_

6. Form & revision:           b g 3

7. Study:                                PIVENS 2

### B. Family history

8. Do any of the patient's first degree relatives (parent, brother, sister, child) have liver disease:

(Yes) (No)  
 (  ) (  )  
**10.** \_\_\_\_\_

9. If yes, characterize the liver disease(s) (*check all that apply*)

a. Alcohol related liver disease: (  )

b. Viral hepatitis: (  )

c. Alpha-1 antitrypsin deficiency: (  )

d. Wilson's disease: (  )

e. Glycogen storage disease: (  )

f. Iron overload: (  )

g. Fatty liver disease (*NAFLD, NASH*): (  )

h. Primary liver cancer: (  )

i. Type of liver disease unknown: (  )

j. Other (*specify*): (  )

\_\_\_\_\_ specify

10. Do any of the patient's first degree relatives (parent, brother, sister, child) have cirrhosis:

(Yes) (No)  
 (  ) (  )  
**12.** \_\_\_\_\_

11. If yes, is the cause of the cirrhosis unknown (cryptogenic):

(Yes) (No)  
 (  ) (  )

12. Do any of the patient's first degree relatives (parent, brother, sister, child) have diabetes (Type 1 or Type 2):

Yes (  )

No (  )

Don't know (  )

13. Do any of the patient's first degree relatives (parent, brother, sister, child) have obesity:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

14. Do any of the patient's first degree relatives (parent, brother, sister, child) have atrophy of body fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

15. Do any of the patient's first degree relatives (parent, brother, sister, child) have a problem with cholesterol or blood fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

**C. NASH history**

16. Date patient was first diagnosed with nonalcoholic steatohepatitis (NASH):
- \_\_\_\_\_
- day mon year

17. What prompted the evaluation for NASH (check all that apply)
- a. Symptoms for liver disease: ( 1 )  
 b. Result of being evaluated for another illness: ( 1 )  
 c. During a routine or insurance physical examination: ( 1 )  
 d. Blood donation: ( 1 )  
 e. Other (specify): ( 1 )

\_\_\_\_\_ specify

18. What procedures/tests supported this first diagnosis (check all that apply)
- a. Liver biopsy: ( 1 )  
 b. Imaging studies (Ultrasound, CT, MRI): ( 1 )  
 c. Elevated aminotransferases: ( 1 )  
 d. Other (specify): ( 1 )

\_\_\_\_\_ specify

**D. Weight history**

19. What was the patient's birthweight:
- \_\_\_\_\_
- lbs oz

20. Review flashcard 9. Which (picture) best describes your weight pattern over the past 5 years (check only one):
- Up and down, up and down ( 1 )  
 Up gradually ( 2 )  
 Up sharply (gained a lot in a brief interval) ( 3 )  
 Down gradually ( 4 )  
 Down sharply (lost a lot in a brief interval) ( 5 )  
 No or minimal change ( 6 )

21. What is the patient's current weight (ask the patient for his/her weight):
- \_\_\_\_\_ lbs

22. What is the most the patient has ever weighed:
- \_\_\_\_\_ lbs

23. At what age did the patient weigh the most:
- \_\_\_\_\_ age in years

24. What is the least the patient has ever weighed since age 18:
- \_\_\_\_\_ lbs

25. At what age did the patient weigh the least since age 18:
- \_\_\_\_\_ age in years

26. Does the patient weigh more than he/she did one year ago:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 28. \_\_\_\_\_

35. How old were you when you (last) stopped smoking cigarettes (*code as "n" if the patient didn't stop smoking*):

\_\_\_\_\_ years

27. How much more does the patient weigh now compared to one year ago:

\_\_\_\_\_ lbs \_\_\_\_\_

36. On the average of the entire time that you smoked cigarettes, how many cigarettes did you smoke per day:

\_\_\_\_\_ cigarettes/day

28. Does the patient weigh less than he/she did one year ago:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 30. \_\_\_\_\_

**F. Menstrual history**

37. Is the patient female:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 42. \_\_\_\_\_

29. How much less does the patient weigh now compared to one year ago:

\_\_\_\_\_ lbs \_\_\_\_\_

38. What was the patient's age at menarche:

\_\_\_\_\_ age in years

30. Did the patient try to lose or gain weight:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 32. \_\_\_\_\_

39. Characterize the menstrual history in the past 5 years (*check only one*):

- Regular periods ( 1 )
- Irregular periods ( 2 )
- Rare periods ( 3 )
- No periods ( 4 )

31. Which did the patient try to do (*check only one*):

- Gain weight ( 1 )
- Lose weight ( 2 )

40. Is patient post-menopausal:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 42. \_\_\_\_\_

**E. Tobacco cigarette smoking history**

(*interview with patient; not by chart review*)

32. Have you ever smoked tobacco cigarettes:

- Never ( 1 )
- In the past but not anymore ( 2 )
- Currently smokes cigarettes ( 3 )

41. What was the patient's age at menopause:


\_\_\_\_\_ age in years

33. Did you smoke cigarettes regularly (*"No" means less than 20 packs of cigarettes in a lifetime or less than 1 cigarette a day for one year*):















( Yes ) ( No )  
 ( 1 ) ( 2 )  
 37. \_\_\_\_\_













34. How old were you when you first started regular cigarette smoking:

\_\_\_\_\_ years

**G. Medical history** ( means *Caution; condition is exclusionary if study physician agrees with diagnosis*)

**42.** Has the patient ever been diagnosed with or treated for any of the following (*check all that apply; source of information can be interview and/or chart review*)

- a. Diabetes type 1:  ( )
- b. Diabetes type 2:  ( )
- c. Gestational diabetes (*diabetes of pregnancy*): ( )
- d. Hepatitis B:  ( )
- e. Hepatitis C:  ( )
- f. Autoimmune hepatitis:  ( )
- g. Autoimmune cholestatic liver disorder (PBC or PSC):  ( )
- h. Wilson's disease:  ( )
- i. Alpha-1-antitrypsin (A1AT) deficiency:  ( )
- j. Iron overload:  ( )
- k. Drug induced liver disease:  ( )
- l. Gilbert's syndrome: ( )
- m. Esophageal or gastric varices on endoscopy:  ( )
- n. Bleeding from varices:  ( )
- o. Other gastrointestinal bleeding: ( )
- p. Biliary diversion:  ( )
- q. Ascites:  ( )

- r. Edema: ( )
- s. Hepatic encephalopathy:  ( )
- t. Portal hypertension:  ( )
- u. Hepatorenal syndrome:  ( )
- v. Hepatopulmonary syndrome:  ( )
- w. Short bowel syndrome:  ( )
- x. Hemophilia (*bleeding disorder*):  ( )
- y. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: ( )
- z. Endocrine disease (*hormonal abnormality*): ( )
- aa. Hepatocellular carcinoma:  ( )
- ab. Other malignancy (*cancer*):  ( )
- ac. Human immunodeficiency virus (HIV):  ( )
- ad. Peripheral neuropathy: ( )
- ae. Seizure disorder or epilepsy: ( )
- af. Drug allergies: ( )
- ag. Hypothyroidism: ( )
- ah. Hypertension: ( )
- ai. Cerebrovascular disease: ( )
- aj. Dysbetalipoproteinemia:  ( )
- ak. Hyperlipidemia (*high cholesterol, high triglycerides*): ( )
- al. Pancreatitis: ( )
- am. Cholelithiasis:  ( )
- an. Coronary artery disease:  ( )



- ao. Congestive heart failure:  ( 1 )
  - ap. Elevated uric acid such as gout: ( 1 )
  - aq. Kidney disease: ( 1 )
  - ar. Polycystic ovary syndrome: ( 1 )
  - as. Sleep apnea (*not breathing during sleep*): ( 1 )
  - at. Dermatologic disorders: ( 1 )
  - au. Myopathy: ( 1 )
  - av. Myositis: ( 1 )
  - aw. Major depression: ( 1 )
  - ax. Schizophrenia: ( 1 )
  - ay. Bipolar disorder: ( 1 )
  - az. Obsessive compulsive disorder: ( 1 )
  - ba. Severe anxiety or personality disorder: ( 1 )
  - bb. Substance abuse:  ( 1 )
  - bc. None of the above: ( 1 )
43. Has the patient ever had bariatric surgery for any of the following (*check all that apply*)
- a. Stapling or banding of the stomach:  ( 1 )
  - b. Jejunioleal (*or other intestinal*) bypass:  ( 1 )
  - c. Biliopancreatic diversion:  ( 1 )
  - d. Other GI or bariatric surgery (*specify*): ( 1 )  
\_\_\_\_\_
  - e. None of the above: ( 1 )

44. Organ, limb, or bone marrow transplant

- a. Has the patient ever received a liver transplant:  
 ( 1 )  ( 2 )
- b. Has the patient ever received any other organ, limb, or bone marrow transplant:  
 ( 1 )  ( 2 )

- 45. Has the patient received total parenteral nutrition (TPN) in the past 12 months:  
 ( 1 )  ( 2 )
- 46. Is the patient currently undergoing evaluation for bariatric surgery:  
 ( 1 )  ( 2 )

H. Drugs historically associated with NAFLD

47. Has the patient used any of the following in the past 2 years
- a. Amiodarone (Cordarone, Pacerone): ( 1 )
  - b. Demeclocycline (Declomycin): ( 1 )
  - c. Divalproex (Depakote): ( 1 )
  - d. Doxycycline (Monodox): ( 1 )
  - e. Methotrexate (Rheumatrex): ( 1 )
  - f. Minocycline (Dynacin, Minocin): ( 1 )
  - g. Oxytetracycline (Terramycin): ( 1 )
  - h. Tetracycline (Achromycin): ( 1 )
  - i. Valproate sodium (Depacon): ( 1 )
  - j. Valproic acid (Depakene): ( 1 )
  - k. Other known hepatotoxin (*specify*): ( 1 )  
\_\_\_\_\_
  - l. None of the above: ( 1 )

48. Were any of the items on 47a-k checked:  
 ( 1 )  ( 2 )

*\*Caution: Use of any of these drugs for more than 2 consecutive weeks in the past 2 years is exclusionary.*

- 49.** Has the patient taken any systemic corticosteroids in the past 2 years (*check all that apply*):
- a.** Betamethasone sodium (Celestone): (  )
  - b.** Cortisol: (  )
  - c.** Cortisone: (  )
  - d.** Dexamethasone (Decadron): (  )
  - e.** Hydrocortisone (Hydrocortone): (  )
  - f.** Methylprednisolone (Solu-Medrol): (  )
  - g.** Prednisolone (Prelone): (  )
  - h.** Prednisone: (  )
  - i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
  - j.** Other, (*specify*): (  )
- 
- k.** Other, (*specify*): (  )
- 
- l.** None of the above: (  )

- 50.** Were any of the items 49a-k checked:
- ( <sup>Yes</sup>  )
( <sup>No</sup>  )
- 

*\*Caution: Use of systemic glucocorticoids for more than 2 consecutive weeks in the past 2 years is exclusionary.*

- 51.** Has the patient taken any estrogen, progestin, anabolic steroids, hormone replacement therapy, or selective estrogen receptor modulators in the past 2 years (*check all that apply*):
- a.** Boldenone undecylenate (Equipose): (  )
  - b.** Conjugated estrogen (Premarin/Prempro): (  )
  - c.** Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
  - d.** Esterified estrogen (Estratab, Menest): (  )
  - e.** Estradiol (Estrace): (  )
  - f.** Ethinyl estradiol (Estinyl): (  )
  - g.** Fluoxymesterone (Android-F, Halotestin): (  )
  - h.** Levonorgestrel (Norplant): (  )
  - i.** Medroxyprogesterone (Cycrin, Provera): (  )
  - j.** Megestrol (Megace): (  )
  - k.** Methandrostenolone (Dianabol): (  )
  - l.** Methyltestosterone (Android): (  )
  - m.** Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
  - n.** Norethindrone (Micronor): (  )
  - o.** Norgestrel (Ovrette): (  )
  - p.** Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
  - q.** Oxandrolone (Oxandrin): (  )
  - r.** Oxymetholone (Anadrol): (  )
  - s.** Progesterone (Prometrium): (  )
  - t.** Raloxifene (Evista): (  )
  - u.** Stanzolol (Winstrol): (  )
  - v.** Tamoxifen (Nolvadex): (  )
  - w.** Testosterone (Depo-Testosterone): (  )

x. Other, (specify): ( 1 )


\_\_\_\_\_

y. Other, (specify): ( 1 )

\_\_\_\_\_

z. None of the above: ( 1 )


52. Were any of the items 51a-y checked:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 

*\*Caution: Use of anabolic steroids, tamoxifen, or estrogens at doses greater than those used for hormone replacement for more than 2 consecutive weeks in the past 2 years is exclusionary.*

**I. Use of antidiabetic drugs**

53. Does the patient have a known intolerance for thiazolidinediones (rosiglitazone, pioglitazone):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 

54. Has the patient used any antidiabetic medications in the past 12 months (check all that apply):

a. Acarbose (Precose): ( 1 )

b. Acetohexamide (Dymelor): ( 1 )

c. Chlorpropamide (Diabinese): ( 1 )

d. Glimepiride (Amaryl): ( 1 )

e. Glipizide (Glucotrol, Glucotrol XL): ( 1 )

f. Glyburide (Micronase, DiaBeta, Glynase): ( 1 )

g. Insulin: ( 1 )

h. Metformin (Glucophage, Glucophage XR): ( 1 )

i. Miglitol (Glycet): ( 1 )

j. Nateglinide (Starlix): ( 1 )

k. Pioglitazone (Actos): ( 1 )

l. Repaglinide (Prandin): ( 1 )

m. Rosiglitazone (Avandia): ( 1 )

n. Tolazamide (Tolinase): ( 1 )


o. Tolbutamide (Orinase): ( 1 )

p. Other, (specify): ( 1 )

\_\_\_\_\_

q. None of the above: ( 1 )

55. Were any of the items 54a-p checked:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 


*\*Caution: Use of antidiabetic drugs in the 3 months prior to liver biopsy or randomization is exclusionary.*

**J. Use of antiNASH drugs and vitamins**

56. Has the patient taken any of these antiNASH drugs in the past 12 months (check all that apply)
- a. Betaine (Cystadone): (  1 )
  - b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  1 )
  - c. Metformin: (  1 )
  - d. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol): (  1 )
  - e. S-adenylmethionine (SAM-e): (  1 )
  - f. Milk thistle: (  1 )
  - g. Probiotics (any form): (  1 )
  - h. Gemfibrozil (Gen-Fibro, Lopid): (  1 )
  - i. Other (specify): (  1 )


\_\_\_\_\_ specify

- j. None of the above: (  1 )

57. Were any of the items in 56a-h checked:
- (  \* 1 ) (  2 )
- 

*\*Caution: Use of antiNASH drugs in the 3 months prior to liver biopsy or randomization is exclusionary.*


58. Has the patient taken any antitumor necrosis factor (anti-TNF) therapies in the past 12 months (check all that apply):
- a. Etanercept (Enbrel): (  1 )
  - b. Infliximab (Remicade): (  1 )
  - c. Other, (specify): (  1 )
- \_\_\_\_\_
- d. None of the above: (  1 )

59. Were any of the items 58a-c checked:
- (  \* 1 ) (  2 )
- 


*\*Caution: Use of anti-TNF therapies in the 3 months prior to liver biopsy or randomization is exclusionary.*


60. Has the patient taken a multivitamin regularly in the past 12 months:
- (  1 ) (  2 )

61. Has the patient taken any vitamin E (either as a supplement or in a multivitamin) in the past 12 months:
- (  1 ) (  2 )
63. \_\_\_\_\_

62. Was/Is the dose of vitamin E greater than 100 IU/day:
- (  \* 1 ) (  2 )
- 

*\*Caution: Use of vitamin E at more than 100 IU/day in the 3 months prior to biopsy or randomization is exclusionary.*

63. Is the patient willing to refrain from taking vitamin E in amounts greater than 100 IU/day during PIVENS:
- (  1 ) (  \* 2 )
- 
- \*Patient may not take vitamin E supplements at doses greater than 100 IU/day during PIVENS.*

64. Does the patient have a known intolerance to vitamin E:
- (  1 ) (  2 )
- 

65. What other vitamins (other than multivitamins and vitamin E) has the patient taken in the past 12 months (check all that apply):
- a. Vitamin B (any type): (  1 )
  - b. Vitamin C: (  1 )
  - c. Vitamin D: (  1 )
  - d. Other, (specify): (  1 )
- \_\_\_\_\_
- e. None of the above: (  1 )

**K. Use of statins, fibrates, and antiobesity drugs**

- 66.** Has the patient taken any antihyperlipidemic medications in the past 12 months (*check all that apply*):
- a.** Atorvastatin (Lipitor): (  )
  - b.** Colestipol hydrochloride (Colestid): (  )
  - c.** Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
  - d.** Fenofibrate (Tricor): (  )
  - e.** Fluvastatin sodium (Lescol): (  )
  - f.** Lovastatin (Mevacor): (  )
  - g.** Nicotinic acid (Niaspan): (  )
  - h.** Pravastatin sodium (Pravachol): (  )
  - i.** Rosuvastatin (Crestor): (  )
  - j.** Simvastatin (Zocor): (  )
  - k.** Other, (*specify*): (  )  
\_\_\_\_\_
  - l.** None of the above: (  )

- 67.** Were any of the items 66a-k checked:
- (  )<sup>Yes</sup> (  )<sup>No</sup>  
 (  )<sup>\*1</sup> (  )<sup>2</sup>

*\*Caution: Use of non-stable doses of statins or fibrates in the 3 months prior to liver biospy or randomization is exclusionary.*

- 68.** Has the patient taken any antiobesity medications in the past 12 months (*check all that apply*):
- a.** Dexfenfluramine hydrochloride (Redux): (  )
  - b.** Fenfluramine hydrochloride (Pondimin): (  )
  - c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
  - d.** Orlistat (Xenical): (  )
  - e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
  - f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
  - g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
  - h.** Other, (*specify*): (  )  
\_\_\_\_\_
  - i.** Other, (*specify*): (  )  
\_\_\_\_\_
  - j.** None of the above: (  )

- 69.** Were any of the items 68a-i checked:
- (  )<sup>Yes</sup> (  )<sup>No</sup>  
 (  )<sup>\*1</sup> (  )<sup>2</sup>

*\*Caution: Use of antiobesity medications in the 3 months prior to randomization is exclusionary.*

**L. Use of other medications and supplements**

**70.** Has the patient taken any cardiovascular or antihypertensive medications in the past 12 months that have not already been reported on this form (*check all that apply*):

- a.** Amlodipine besylate (Norvasc): (  )
- b.** Atenolol (Tenormin): (  )
- c.** Benazepril (Lotensin): (  )
- d.** Captopril (Capoten): (  )
- e.** Clonidine (Catapres): (  )
- f.** Digoxin (Lanoxin): (  )
- g.** Diltiazem (Cardizem): (  )
- h.** Doxazosin (Cardura): (  )
- i.** Enalapril (Vasotec): (  )
- j.** Felodipine (Plendil): (  )
- k.** Furosemide (Lasix): (  )
- l.** Hydrochlorothiazide (Esidrix, HydroDIURIL): (  )
- m.** Hydrochlorothiazide + triamterene (Dyazide): (  )
- n.** Lisinopril (Prinivil, Zestril): (  )
- o.** Losartan potassium (Cozaar): (  )
- p.** Losartan potassium with hydrochlorothiazide (Hyzaar): (  )
- q.** Metoprolol (Lopressor): (  )
- r.** Nifedipine (Adalat, Procardia): (  )
- s.** Perhexiline maleate: (  )
- t.** Propranolol (Inderal): (  )
- u.** Quinapril (Accupril): (  )
- v.** Terazosin (Hytrin): (  )
- w.** Timolol maleate (Blocadren): (  )
- x.** Valsartan (Diovan): (  )
- y.** Verapamil (Calan): (  )
- z.** Other, (*specify*): (  )
- 
- aa.** Other, (*specify*): (  )
- 
- ab.** None of the above: (  )

**71.** Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 12 months (*check all that apply*):

- a.** Acetaminophen (Tylenol): (  )
- b.** Aspirin - 325 mg: (  )
- c.** Aspirin - 81 mg: (  )
- d.** Celecoxib (Celebrex): (  )
- e.** Ibuprofen (Advil, Motrin): (  )
- f.** Indomethacin (Indocin): (  )
- g.** Naproxen (Aleve, Naprosyn): (  )
- h.** Rofecoxib (Vioxx): (  )
- i.** Valdecoxib (Bextra): (  )
- j.** Other, (*specify*): (  )
- 
- k.** Other, (*specify*): (  )
- 
- l.** Other, (*specify*): (  )
- 
- m.** None of the above: (  )
- 72.** Has the patient taken any strong opiates containing acetaminophen medication in the past 12 months (*check all that apply*):
- a.** Darvocet: (  )
- b.** Esgic - Plus: (  )
- c.** Fioricet: (  )
- d.** Lorcet: (  )
- e.** Lortab: (  )
- f.** Norco: (  )
- g.** Percocet: (  )
- h.** Talacen: (  )
- i.** Tylenol #3: (  )
- j.** Tylenol #4: (  )
- k.** Tylox: (  )
- l.** Vicodin: (  )
- m.** Wygesic: (  )
- n.** Other, (*specify*): (  )
- 
- o.** None of the above: (  )

**73.** Has the patient taken any histamine H2 receptor antagonists or other gastrointestinal medications in the past 12 months (*check all that apply*):

- a.** Cimetidine (Tagamet): (  )
- b.** Esomeprazole magnesium (Nexium): (  )
- c.** Famotidine (Pepcid): (  )
- d.** Lansoprazole (Prevacid): (  )
- e.** Nizatidine (Axid): (  )
- f.** Omeprazole (Prilosec): (  )
- g.** Ranitidine (Zantac): (  )
- h.** Ranitidine bismuth citrate (Tritec): (  )
- i.** Antacids, (*specify*): (  )  
\_\_\_\_\_
- j.** Other, (*specify*): (  )  
\_\_\_\_\_
- k.** Other, (*specify*): (  )  
\_\_\_\_\_
- l.** None of the above: (  )

**74.** Has the patient taken any anticoagulant or antiplatelet medications in the past 12 months (*check all that apply*):

- a.** Clopidogrel (Plavix): (  )
- b.** Dipyridamole: (  )
- c.** Heparin: (  )
- d.** Ticlopidine (Ticlid): (  )
- e.** Warfarin (Coumadin): (  )
- f.** Other, (*specify*): (  )  
\_\_\_\_\_
- g.** Other, (*specify*): (  )  
\_\_\_\_\_
- h.** None of the above: (  )

**75.** Has the patient taken any allergy or asthma medications in the past 12 months that have not already been reported on this form (*check all that apply*):

- a.** Albuterol: (  )
- b.** Beclomethasone dipropionate (Beclvent, Vanceril): (  )
- c.** Budesonide (Pulmicort, Rhinocort): (  )
- d.** Fluticasone propionate (Flonase, Flovent): (  )
- e.** Loratadine (Claritin): (  )
- f.** Mometasone furoate (Nasonex): (  )
- g.** Triamcinolone acetonide (Azmecort, Nasacort): (  )
- h.** Other, (*specify*): (  )  
\_\_\_\_\_
- i.** Other, (*specify*): (  )  
\_\_\_\_\_
- j.** None of the above: (  )

**76.** Has the patient taken any supplements in the past 12 months that have not already been reported on this form (*check all that apply*):

- a.** Alpha-lipoic acid: (  )
- b.** Beta-carotene: (  )
- c.** Calcium (any form): (  )
- d.** Carnitine (any form): (  )
- e.** Chondroitin (any form): (  )
- f.** Cod liver oil: (  )
- g.** Coenzyme Q: (  )
- h.** Dichloroacetate: (  )
- i.** Echinacea: (  )
- j.** Fish oil (any form): (  )
- k.** Flax seed oil: (  )
- l.** Garlic: (  )
- m.** Ginkgo biloba: (  )
- n.** Glucosamine (any form): (  )
- o.** Lecithin: (  )
- p.** Magnesium: (  )
- q.** N-acetyl-cysteine: (  )
- r.** Potassium (any form): (  )
- s.** Saw palmetto: (  )
- t.** Selenium: (  )
- u.** St. John's Wort: (  )
- v.** Taurine: (  )
- w.** Zinc picolinate: (  )
- x.** Other, (*specify*): (  )

---

**y.** Other, (*specify*): (  )

---

**z.** None of the above: (  )

**77.** Has patient taken any of the following medications in the past 12 months (*check all that apply*):


- a.** Isotretinoin (Accutane): (  )
- b.** Levothyroxine (Levoxyl, Synthroid): (  )
- c.** Liothyronine (Cytomel): (  )
- d.** Penicillamine (Cuprimine, Depen): (  )
- e.** Trientine hydrochloride (Syprine): (  )
- f.** Other, (*specify*): (  )  
\_\_\_\_\_
- g.** Other, (*specify*): (  )  
\_\_\_\_\_
- h.** Other, (*specify*): (  )  
\_\_\_\_\_
- i.** Other, (*specify*): (  )  
\_\_\_\_\_
- j.** Other, (*specify*): (  )  
\_\_\_\_\_
- k.** None of the above: (  )



78. Has the patient taken any alcohol abuse, inhaled or injection drugs (dependence or withdrawal) medications in the past 12 months (*check all that apply*):

- a. Chlordiazepoxide (Librium):  1
- b. Clorazepate dipotassium (Tranxene):  1
- c. Diazepam (Valium):  1
- d. Disulfiram (Antabuse):  1
- e. Hydroxyzine pamoate (Vistaril):  1
- f. Naltrexone hydrochloride (Revia):  1
- g. Other, (*specify*):  1  
\_\_\_\_\_
- h. None of the above:  1

79. Were any of the items 78a-g checked:

<sup>Yes</sup> 1       <sup>No</sup> 2  


*\*Caution: Active substance abuse, such as alcohol or inhaled or injection drugs, in the year prior to screening is exclusionary.*

**M. Willingness to use effective birth control methods**


80. Are you female and of childbearing potential:

<sup>Yes</sup> 1       <sup>No</sup> 2  
 84.

81. Are you currently pregnant:

<sup>Yes</sup> 1       <sup>No</sup> 2  
 EHG

82. Are you currently breast feeding:

<sup>Yes</sup> 1       <sup>No</sup> 2  


*\*Caution: Patient cannot be breastfeeding at time of randomization.*

83. Are you willing to use effective birth control methods during PIVENS (*ask only females*):

<sup>Yes</sup> 1       <sup>No</sup> 2  
 EHG

**N. Administrative information**

84. Study Physician PIN: \_\_\_\_\_

85. Study Physician signature: \_\_\_\_\_

86. Clinical Coordinator PIN: \_\_\_\_\_

87. Clinical Coordinator signature: \_\_\_\_\_

88. Date form reviewed:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## PIVENS

## BP - Blood Processing for Plasma and Serum

**Purpose:** Document collection of fasting blood for local separation of plasma and serum and shipment to NIDDK Biosample Repository at Fisher BioServices.

**When:** Visits s2, f016, f032, f048, f064, f080, f096, and f120.

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection and processing of whole blood.

**Instructions:** Fill CTAD and SST tubes with whole blood and prepare plasma and serum aliquots in the quantities specified below for the visit. Note that the number of SST tubes used varies by whether or not the patient consented to banking of serum for future research (documented on the Genetic and Future Research Consent Documentation (CG) form (Plasma banking is not affected)).

Visit	All patients		Patients who consent to serum banking for future research		Patient who does NOT consent to serum banking for future research	
	No. of 4.5 mL CTAD tubes to fill	No. of plasma aliquots	No. of 10 mL SST tubes to fill	No. of serum aliquots	No. of 10 mL SST tubes to fill	No. of serum aliquots
s2	1	5 or 6	4	40	1.5	15
f016	none	none	2	20	none	none
f032	none	none	2	20	none	none
f048	1	5 or 6	4	40	1.5	15
f064	none	none	2	20	none	none
f080	none	none	2	20	none	none
f096	1	5 or 6	4	40	1.5	15
f120	1	5 or 6	3	30	1	10

Label CTAD and SST tubes of whole blood using labels specific for the patient and visit; these labels are generated by the clinic upon registration (screening labels) or after randomization (followup visit labels). Attach duplicate whole blood tube labels in items 12 and 14 below. Process blood for plasma and serum within two hours. After separation, prepare 5 or 6 aliquots of plasma, depending on volume of plasma obtained: transfer 0.5 mL of plasma to each of 5 or 6 (2.0 mL) cryovials. After separation, transfer 0.5 mL of serum to each of the 20 or 40 (2.0 mL) cryovials depending on the visit. Label the plasma and serum cryovials with the numbered patient-specific plasma (blue top) and serum (red top) cryovial labels provided by the DCC. Choose one of the cryovial label sets provided by the DCC for this patient for use with this visit. Affix serum aliquot #00 label (all visits) and plasma aliquot #00 label (if visit s2, f048, f096 or f120) to this form in item 19. The LS code keyed from the cryovial labels in item 19 of this form links the cryovials collected today with the date and visit identified in items 4 and 5 of this form. Freeze labeled aliquots of plasma and serum immediately according to procedures specified in the PIVENS SOP, Part I. **NOTE:** Immediately upon completion of plasma and serum aliquot preparation, destroy any leftover cryovial labels from the label set used at this visit; use of these cryovial labels at any other visit will result in aliquots from both visits being unusable since the visit at which they were collected will not be uniquely identified.

## A. Center, patient and visit identification

5. Visit code: \_\_\_\_\_

1. Center code: \_\_\_\_\_

6. Form & revision:   b     p     1  

2. Patient ID: \_\_\_\_\_

7. Study:   PIVENS     2  

3. Patient code: \_\_\_\_\_

4. Date of visit:

\_\_\_\_ day      \_\_\_\_ mon      \_\_\_\_ year



19. Attach duplicate cryovial labels  
(use aliquot 00 labels which are located in the first  
row of labels for each label set):

Serum aliquot #00 label	Plasma aliquot #00 label
<div style="border: 1px solid black; height: 150px; width: 100%;"></div>	<div style="border: 1px solid black; height: 150px; width: 100%;"></div>

20. Technician:  
\_\_\_\_\_  
print name

**D. Freezing aliquots**

*Freeze plasma and serum aliquots immediately at  
-70°C or -20°C. If frozen at -20°C, the cryovials  
must be transferred to -70°C within 24 hours.  
Batch ship monthly to the NIDDK BioSample Re-  
pository at Fisher BioServices.*

21. Date and time cryovials frozen in -70°C  
or -20°C

a. Date: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

b. Time: \_\_\_\_\_ : \_\_\_\_\_ ( ) ( )  
hour minute am pm

22. Number of cryovials frozen: \_\_\_\_\_

23. Technician:  
\_\_\_\_\_  
print name

**E. Administrative information**

24. Clinical Coordinator PIN: \_\_\_\_\_

25. Clinical Coordinator signature:  
\_\_\_\_\_

26. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year



**D. Administrative information**

15. Study Physician PIN: \_\_\_\_\_

16. Study Physician signature:  
\_\_\_\_\_

17. Clinical Coordinator PIN: \_\_\_\_\_

18. Clinical Coordinator signature:  
\_\_\_\_\_

19. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## PIVENS

## CO - Closeout Form

**Purpose:** To close out a patient's participation in PIVENS and document the patient's consent to join or re-enter the NAFLD Database.

**When:** At f120 visit or at the close of the f120 window.

**Respondent:** Clinical coordinator.

**Instructions:** Complete this form for each patient randomized in PIVENS at the f120 visit or at the close of the f120 window. Determine if the patient now wants to re-enter or join the NAFLD Database. Schedule the patient for a NAFLD Database follow-up visit approximately 6 months from this visit.

(1) Patients previously enrolled in the NAFLD Database: consult the NAFLD Database visit schedule generated at NAFLD enrollment and use the visit window that is open in 6 months (f144 or f192).

(2) Patients NOT previously enrolled in the NAFLD Database: if patient is willing to join the NAFLD Database, a visit schedule will be generated upon keying this form. Schedule the participant approximately 6 months from their PIVENS f120 visit for their f144 NAFLD Database follow-up visit.

### A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: f 1 2 0

6. Form & revision: c o 1

7. Study: PIVENS 2

### B. Database participation

8. Does the patient wish to re-enter or join the NAFLD Database:  
 (Yes) (No)  
 ( \* 1 ) ( + 2 )

11.

9. Has the patient signed the latest version of the NAFLD Database informed consent:

(Yes) (No)  
 ( 1 ) ( \* 2 )



\* Patient must sign the informed consent

10. Was the patient enrolled in the NAFLD Database previously:

(Yes) (No)  
 ( \* 1 ) ( + 2 )

\* Schedule the patient's next NAFLD Database follow-up visit approximately 6 months from the date in item 4. Consult the patient's NAFLD Database visit schedule and use the NAFLD Database visit open on that date.

+ Data system will generate a visit window schedule assigning the PIVENS randomization date as the NAFLD Database enrollment date. Schedule the patient approximately 6 months from the date in item 4 for their f144 NAFLD Database follow-up visit.

### C. Administrative information

11. Clinical Coordinator PIN: \_\_\_\_\_

12. Clinical Coordinator signature: \_\_\_\_\_

13. Date form reviewed:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## PIVENS

## CR - Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.

**When:** Biopsy slides may have visit code s1, f096, or n.

**By whom:** Data Coordinating Center staff member.

**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by Data Coordinating Center personnel.

**A. Center, participant and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of biopsy:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   c     r     1  

7. Study:                   PIVENS  2  

**B. Central reading**

8. Date of central reading:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Which stained slides are available for review (*check all that apply*)

a. H & E: (  )

b. Masson's trichome: (  )

c. Iron: (  )

d. Other (*specify*): (  )

\_\_\_\_\_

10. Biopsy length: \_\_\_\_\_ mm

11. Steatosis (*assume macro, e.g., large and small droplet*)

a. Grade:

< 5% (  )

5-33% (  )

34-66% (  )

> 66% (  )

b. Location:

Zone 3 (  )

Zone 1 (  )

Azonal (  )

Panacinar (  )

c. Microvesicular steatosis, contiguous patches:

Not present (  )

Present (  )

12. Fibrosis stage (*Masson's trichrome stain*)

0: None (  )

1a: Mild, zone 3, perisinusoidal (requires trichome) (  )

1b: Moderate, zone 3, perisinusoidal (easily seen on H&E) (  )

1c: Portal/periportal only (  )

2: Zone 3 and periportal, any combination (  )

3: Bridging (  )

4: Cirrhosis (  )



**13. Inflammation**

**a. Amount of lobular inflammation:**  
combines mononuclear, fat  
granulomas, and pmn foci:

- 0 ( 0 )  
 < 2 under 20x mag ( 1 )  
 2-4 under 20x mag ( 2 )  
 > 4 under 20x mag ( 3 )

**b. Microgranulomas seen:**

- Yes ( 1 ) No ( 2 )

**c. Large lipogranulomas seen:**

- Yes ( 1 ) No ( 2 )

**d. Amount of portal, chronic  
inflammation:**

- 0: None ( 0 )  
 1a: Mild ( 1 )  
 1b: More than mild ( 2 )

**14. Liver cell injury**

**a. Ballooning:**

- None ( 0 )  
 Few ( 1 )  
 Many ( 2 )

**b. Acidophil bodies:**

- Rare ( 0 )  
 Many ( 1 )

**c. Pigmented macrophages:**

- Rare/absent ( 0 )  
 Many ( 1 )

**d. Megamitochondria:**

- Rare/absent ( 0 )  
 Many ( 1 )

**15. Mallory bodies**

- Rare/absent ( 0 )  
 Many ( 1 )

**16. Glycogen nuclei:**

- Rare/absent ( 0 )  
 Many ( 1 )

**17. Iron stain**

**a. Hepatocellular grade:**

- Absent or barely discernible, 40x ( 0 )  
 Barely discernible granules, 20x ( 1 )  
 Discrete granules resolved, 10x ( 2 )  
 Discrete granules resolved, 4x ( 3 )  
 Masses visible by naked eye ( 4 )

**b. Hepatocellular iron distribution:**

- Periportal ( 0 )  
 Periportal and midzonal ( 1 )  
 Panacinar ( 2 )  
 Zone 3 or nonzonal ( 3 )

**c. Sinusoidal lining cell iron grade:**

- None ( 0 )  
 Mild ( 1 )  
 More than mild ( 2 )

**d. Sinusoidal lining cell iron distribution:**

- Large vessel endothelium only ( 0 )  
 Portal/fibrous bands only, but more  
than just in large vessel endothelium ( 1 )  
 Intraparenchymal only ( 2 )  
 Both portal and intraparenchymal ( 3 )

**18. Is this steatohepatitis:**

- No ( 1 )  
 Suspicious/borderline/indeterminate ( 2 )  
 Yes, definite ( 3 )

**19. Is cirrhosis present:**

- Yes ( 1 ) No ( 2 )

**21.**

**20. In the committee's opinion, is this  
cryptogenic cirrhosis:**

- Yes ( 1 ) No ( 2 )

**21. Other features (check all that apply)**

- a. Mallory's hyaline (r/o cholate stasis):** ( 1 )  
**b. Perisinusoidal fibrosis away from  
septa:** ( 1 )  
**c. Hepatocyte ballooning:** ( 1 )  
**d. Megamitochondria:** ( 1 )  
**e. Other (specify):** ( 1 )

- f. None:** ( 1 )

22. Other comments (*specify*):

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---

---

---

**C. Administrative information**

23. Data Coordinating Center personnel signature:

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24. Date form reviewed:

— — — — —  
day                      mon                      year



## PIVENS

## DR - Death Report

**Purpose:** To record the report of a patient's death.

**When:** As soon as clinic is notified of a patient's death.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete this form whenever the clinical center is informed of a patient's death. If the death is considered associated or possibly associated with participation in the PIVENS study, complete a Serious Adverse Event (AN) form and follow the directions on Form AN for reporting a serious adverse event in PIVENS.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form is initiated (*date of notice*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: n \_\_\_\_\_

6. Form & revision: d r 1

7. Study: PIVENS 2

**10. Place of death:**

\_\_\_\_\_ city/state/country

\_\_\_\_\_ city/state/country

**11. Cause of death**

*(Study Physician: use whatever knowledge you have and your best medical judgment to best characterize the cause of death; check only one):*

Heart disease (  1 )

Stroke (  2 )

Liver disease (  3 )

Malignancy (  4 )

Other (*specify*): (  5 )

\_\_\_\_\_ specify

\_\_\_\_\_ specify

Unknown (  6 )

**B. Death information**

8. Date of death:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Source of death report (*check all that apply*):

a. Patient's family: (  1 )

b. Friend: (  1 )

c. Health care provider or NASH CRN staff: (  1 )

d. Newspaper: (  1 )

e. Funeral parlor/home: (  1 )

f. Medical record: (  1 )

g. Medical examiner: (  1 )

h. Coroner: (  1 )

i. Other (*specify*): (  1 )

\_\_\_\_\_ other source

\_\_\_\_\_ other source

**C. Administrative information**

12. Study Physician PIN: \_\_\_\_\_

13. Study Physician signature: \_\_\_\_\_

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature: \_\_\_\_\_

16. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year





**C. Cirrhosis exclusion**

**11. Clinical cirrhosis evaluation**

a. Does the patient have varices or ascites and does the physician judge that the patient has cirrhosis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

b. In the Study Physician's judgment, does the patient have cirrhosis (Use histologic, clinical, and laboratory findings such as INR > 1.3, albumin < 3.0 g/dL, or conjugated bilirubin > 2 mg/dL as guidelines):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**D. Other chronic liver disease exclusions**

**12. Evidence of autoimmune liver disease**

a. Does the patient have ongoing autoimmune liver disease defined by the presence of anti-nuclear antibody (ANA) of greater than 1:80 and liver histology consistent with autoimmune liver disease:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

b. In the Study Physician's judgment, does the patient have a history of autoimmune hepatitis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**13. Does the patient have primary biliary cirrhosis defined by alkaline phosphatase above the upper limit of normal and anti-mitochondrial antibody (AMA) of greater than 1:80 and liver histology consistent with primary biliary cirrhosis:**

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**14. Does the patient have known primary sclerosing cholangitis and suggestive liver histology:**

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**15. Does the patient have Wilson's disease defined by ceruloplasmin below the lower limit of normal and liver histology consistent with Wilson's disease:**

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**16. Does the patient have alpha-1-antitrypsin (A1AT) deficiency defined by a suggestive liver histology confirmed by A1AT level less than normal (physician judgment):**

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**17. Hemochromatosis**

a. Does the patient have a history of hemochromatosis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

b. Does the patient have a iron overload as defined by presence of 3+ or 4+ stainable iron on liver biopsy:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**18. Do any of the patient's assessments show evidence of other chronic liver disease**

a. Drug induced liver disease as defined on the basis of typical exposure and history:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

b. Known bile duct obstruction:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

c. Suspected or proven liver cancer:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

d. Any other type of liver disease other than NASH that warrants exclusion from the trial:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  **Elig**

**E. Other medical exclusions**

19. History of diabetes mellitus:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

20. History of bariatric surgery (*jejunoileal bypass or gastric weight loss surgery*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

21. History of biliary diversion:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

22. Known positivity for antibody to Human Immunodeficiency Virus (HIV):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

23. Known heart failure of New York Heart Association class 2, 3, or 4:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

24. Inability to safely undergo liver biopsy:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

25. Use of drugs associated with NAFLD for more than 2 consecutive weeks in the 2 years prior to screening:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

26. Use of antidiabetic drugs in the 3 months prior to randomization:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

27. Use of antiNASH drugs in the 3 months prior to randomization:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

28. Use of a VARIABLE dose of any statins or fibrates in the 3 months prior to randomization:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

29. Use of antiobesity drugs in the 3 months prior to randomization:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

30. Use of Vitamin E at a dose greater than 100 IU/day:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

31. Known active, serious medical disease with a likely life-expectancy less than 5 years:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

32. Known active substance abuse, such as alcohol or inhaled or injection drugs in the year prior to screening:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig

33. Other condition which, in the opinion of the investigator, would impede compliance or hinder completion of the study:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
  Elig



**F. Birth control exclusion**

34. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient (*females of childbearing potential*) willing to use effective birth control methods to avoid pregnancy during the 96 weeks of treatment (*check "Yes" if patient is male or not of childbearing potential*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 1  2

**G. Eligibility check on day of randomization**

(*do in person if patient is of childbearing potential; otherwise, these checks may be done over the telephone with the patient on the day of randomization*)

35. Was an ineligibility condition checked or an eligibility not ascertained in items 8-34:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 1  2

*\*Key visits s1 and s2 forms RG, AD, BC, BD, BG, BP, CG, DX, HF, HS (if needed), LD, LQ, LR, LS, PA, PE, PF, QF. Run the Randomization Task on your clinic data system.*

36. Were any stops or ineligible conditions other than "missing form EC" identified by the Randomization Task:

Yes ( 1 )  
 1  2

No ( 2 )

Task not run because patient is known to be ineligible ( 3 )  
 3

37. Does the patient feel well today:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 1  2

*\*Defer randomization until the patient feels well; when the patient returns to attempt randomization again, review all items on this form and update each item as needed.*

38. Is the patient male:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 1  2

39. Is the patient of childbearing potential:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 1  2

*\*Administer pregnancy test.*

40. Is the patient pregnant (*positive pregnancy test on the day of randomization*):

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 1  2

*\*Go to item 44.*

41. Is the patient currently breast feeding

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 1  2

*\*Go to item 44.*

42. Per the Study Physician's judgment, is there any reason to exclude the patient from randomization:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 1  2

*\*If Yes, specify reason and then go to item 44:*

\_\_\_\_\_ specify reason

43. Does the patient still consent to randomization (*you should ask the patient to orally affirm his/her consent*):

( Yes ) ( No )  
 ( \* 1 ) ( † 2 )  
 1  2

*\*Go to item 45 and complete this form. Then key this form and run the Randomization Task on your clinic data system to randomize the patient.*

*†Complete items 44-49 and key the form. The form must be keyed to document the reasons for ineligibility for PIVENS.*

**H. Reasons for ineligibility for ineligible patients**

*Note: Complete this section for ineligible patients only.*

**44. Reason for ineligibility (check all that apply)**

- a. Reason covered in items 8-43: (  )
- b. Biopsy out of window and patient chose not to repeat: (  )
- c. Biopsy inadequate for scoring and patient chose not to repeat: (  )
- d. Local pathologist did not find steatohepatitis: (  )
- e. NAS score  $\leq$  3 or at least 1 subscore = 0: (  )
- f. NAS = 4 and central review did not find steatohepatitis: (  )
- g. Albumin  $<$  3 g/dL: (  )
- h. INR  $>$  1.3: (  )
- i. Bilirubin  $>$  2 mg/dL: (  )
- j. Positive for hepatitis B: (  )
- k. Positive for hepatitis C: (  )
- l. ALT  $>$  300 U/L: (  )
- m. Fasting blood glucose  $\geq$  126 mg/dL: (  )
- n. Creatinine  $>$  2.0 mg/dL: (  )
- o. Known intolerance to TZDs: (  )
- p. Known intolerance to vitamin E: (  )
- q. Liver transplant: (  )
- r. Currently being evaluated for bariatric surgery: (  )
- s. TPN in year prior to screening: (  )
- t. Tests are outside time window and clinic chose not to repeat tests: (  )
- u. Other reason not covered on this form (specify): (  )

\_\_\_\_\_ specify

**I. Administrative information**

45. Study Physician PIN: \_\_\_\_\_

46. Study Physician signature: \_\_\_\_\_

47. Clinical Coordinator PIN: \_\_\_\_\_

48. Clinical Coordinator signature: \_\_\_\_\_

49. Date form reviewed  
*(Note re: patient proceeding to randomization: this form must be reviewed on the day of randomization; if it was keyed prior to the randomization day, update it and re-review it on the day of randomization and key the revised date of review.)*

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*(NOTE: If patient was not present in the clinic to receive the assigned medication, send the medication to the patient by overnight delivery service.)*

## PIVENS

## HF - Liver Biopsy Histology Findings

**Purpose:** Record results of histologic evaluation of slides from liver biopsy for eligibility.

**When:** Visit s1.

**By whom:** Study Pathologist at the NASH CRN clinical center (this is not the form used for central reading) and Clinical Coordinator.

**Instructions:** The Study Pathologist should complete this form using the institution's H & E slide and if available, the institution's Masson's trichrome slide. Upon completion of this form, the Study Pathologist should give the form to the Clinical Coordinator. If fewer than 2 unstained slides are available for the biopsy, the institution's H & E and Masson's trichrome slides must be sent to the DCC for central pathology review. If 2 or more unstained slides are available for the biopsy, only the unstained slides need to be sent to the DCC. The Study Pathologist should forward the stained slides (if needed) and up to 10 unstained slides to the Clinical Coordinator for forwarding to the Data Coordinating Center.

If the patient's NASH Activity Score equals 4, review by two additional NASH CRN pathologists is required. Complete forms HS, HT, and IP and send them with the institution's H & E slide to David Kleiner (instructions for shipping are on the IP form). If  is checked for any item, the patient is not eligible for PIVENS and the form should not be keyed. If  is checked for an item, use caution. If the Study Physician agrees with the diagnosis, the patient is ineligible for PIVENS and the form should not be keyed.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of reading:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      s    1                      \_\_\_\_\_

6. Form & revision:                      h    f    2

7. Study:                                      PIVENS 2

## B. Biopsy information

8. Date this biopsy was performed (*obtained from surgical pathology report*):

\_\_\_\_\_  
 day                      mon                      year

9. What slides are to be used in this evaluation (*check all that apply*)

a. H & E:                                      (  )

b. Masson's trichrome:                      (  )

## C. NASH evaluation (use H &amp; E and Masson's trichrome slides only)

10. Steatosis (*assume macro, e.g., large and small droplet*)

a. Grade:

< 5%

( 0 )

5-33%

( 1 )

34-66%

( 2 )

> 66%

( 3 )

b. Location:

Zone 3

( 0 )

Zone 1

( 1 )

Azonal

( 2 )

Panacinar

( 3 )

11. Fibrosis stage (*Masson's trichrome stain*)

0: None

( 0 )

1a: Zone 3, perisinusoidal (requires trichrome)

( 1 )

1b: Zone 3, perisinusoidal (easily seen on H & E)

( 2 )

1c: Portal/periportal only

( 3 )

2: Zone 3 and periportal, any combination

( 4 )

3: Bridging

( 5 )

4: Cirrhosis

( 6 )

**12. Inflammation**

**a.** Amount of lobular inflammation:  
combines mononuclear, fat  
granulomas, and pmn foci:

- 0 ( 0 )
- < 2 / 20x mag ( 1 )
- 2-4 / 20x mag ( 2 )
- > 4 / 20x mag ( 3 )

**b.** Amount of portal, chronic  
inflammation:

- None to minimal ( 0 )
- Greater than minimal ( 1 )

**13. Hepatocellular ballooning:**

- None ( 0 )
- Few ( 1 )
- Many ( 2 )

**14. Is steatohepatitis present:**

- No ( 1 )
- Suspicious/borderline/indeterminate ( 2 )
- Yes, definite ( 3 )

**D. Exclusion of other liver disease**

**15. Is there evidence of primary biliary  
cirrhosis:**

- Yes ( \* 1 )
- No ( 2 )

*\* Caution: Primary biliary cirrhosis is  
exclusionary*

**16. Is there evidence of Wilson's disease:**

- Yes ( \* 1 )
- No ( 2 )

*\* Caution: Wilson's disease is exclusionary*

**17. Features of chronic cholestatic liver  
disease (check all that apply)**

- a.** Bile duct loss/infiltration/sclerosis: ( \* 1 )
- b.** Florid duct lesions: ( 1 )
- c.** Cholate stasis: ( 1 )
- d.** Copper deposition: ( 1 )
- e.** Other (specify): ( 1 )

**f.** None: ( 1 )  
*\* Caution: Bile duct obstruction and primary  
sclerosing cholangitis are exclusionary*

**18. Features of other forms of chronic liver  
disease (check all that apply)**

- a.** Vascular lesions of ALD/B-C/OVD: ( 1 )
- b.** Inflammation suggestive of AIH,  
HCV: ( \* 1 )

*\* Caution: Autoimmune liver disease and HCV  
are exclusionary*

- c.** Pigment suggestive of HH: ( \* 1 )

*\* Caution: Hemochromatosis or iron overload  
as defined by 3+ or 4+ stainable iron is exclu-  
sionary*

- d.** Globules suggestive of A1AT: ( \* 1 )

*\* Caution: Alpha-1 antitrypsin deficiency is  
exclusionary*

- e.** Hepatocellular changes suggestive of  
HBV: ( \* 1 )

*\* Caution: HBV is exclusionary*

- f.** Granulomas suggestive of sarcoid,  
PBC, infection: ( \* 1 )

*\* Caution: Primary biliary cirrhosis is exclu-  
sionary*

- g.** Other (specify): ( 1 )

- h.** None: ( 1 )

19. Is there evidence of cirrhosis:

	Yes ( 1 )	No ( 2 )
<input checked="" type="radio"/> <b>Elig</b>	└─┘	

**E. NASH Activity Score**

20. NASH activity score (NAS)  
*(sum of items 10a, 12a, and 13)* \_\_\_\_\_  
 3-8  
*(Note: each subscore must be 1 or more)*

21. Is item 20 (NAS) 3 or less:  

	Yes ( 1 )	No ( 2 )
<input checked="" type="radio"/> <b>Elig</b>	└─┘	

22. Is item 20 (NAS) equal to 4:  

	Yes ( * 1 )	No ( 2 )
<input type="radio"/> <b>C</b>	└─┘	

*\* Review by two additional NASH CRN pathologists is required. If there are no ineligibility conditions checked on this form (i.e., the patient is deemed eligible pending determination of steatohepatitis by two additional pathologists), complete forms HS, HT and IP and arrange for review by two additional pathologists.*

**F. Other comments**

23. Other comments:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**G. Administrative information**

24. Study Pathologist PIN: \_\_\_\_\_

25. Study Pathologist signature:  
\_\_\_\_\_

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year



**E. Tobacco cigarette smoking** (*interview with patient*)

14. Since the last visit, have you smoked tobacco cigarettes regularly (“No” means less than 1 day per week on average):

Yes ( 1 )       No ( 2 )  
17. ———

15. On average, how many days per week have you smoked cigarettes: \_\_\_\_\_  
# days

16. On the days that you smoked, about how many cigarettes did you smoke per day: \_\_\_\_\_  
# cigarettes per day

**F. Medical history**

17. Since the last visit, has the patient been diagnosed with or treated for any of the following (*check all that apply; source of information can be interview and/or chart review; complete an Interim Event Report (IE) form, if any of the conditions checked are possibly or definitely associated with PIVENS study drugs and the event has not already been reported on an IE form*)

- a. Diabetes type 1: (  )
- b. Diabetes type 2: (  )
- c. Gestational diabetes (*diabetes of pregnancy*): (  )
- d. Hepatitis B: (  )
- e. Hepatitis C: (  )
- f. Autoimmune hepatitis: (  )
- g. Autoimmune cholestatic liver disorder (PBC or PSC): (  )
- h. Wilson’s disease: (  )
- i. Alpha-1-antitrypsin (A1AT) deficiency: (  )
- j. Iron overload: (  )
- k. Drug induced liver disease: (  )
- l. Gilbert’s syndrome: (  )
- m. Esophageal or gastric varices on endoscopy: (  )
- n. Bleeding from varices: (  )
- o. Other gastrointestinal bleeding: (  )
- p. Biliary diversion: (  )

- q.** Ascites: (  )  
**r.** Edema: (  )  
**s.** Hepatic encephalopathy: (  )  
**t.** Portal hypertension: (  )  
**u.** Hepatorenal syndrome: (  )  
**v.** Hepatopulmonary syndrome: (  )  
**w.** Short bowel syndrome: (  )  
**x.** Hemophilia (*bleeding disorder*): (  )  
**y.** Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: (  )  
**z.** Endocrine disease (*hormonal abnormality*): (  )  
**aa.** Hepatocellular carcinoma: (  )  
**ab.** Other malignancy (*cancer*): (  )  
**ac.** Human immunodeficiency virus (HIV): (  )  
**ad.** Peripheral neuropathy: (  )  
**ae.** Seizure disorder or epilepsy: (  )  
**af.** Drug allergies: (  )  
**ag.** Hypothyroidism: (  )  
**ah.** Hypertension: (  )  
**ai.** Cerebrovascular disease: (  )  
**aj.** Dysbetalipoproteinemia: (  )  
**ak.** Hyperlipidemia (*high cholesterol, high triglycerides*): (  )  
**al.** Pancreatitis: (  )  
**am.** Cholelithiasis: (  )  
**an.** Coronary artery disease: (  )  
**ao.** Congestive heart failure: (  )  
**ap.** Elevated uric acid such as gout: (  )  
**aq.** Kidney disease: (  )  
**ar.** Polycystic ovary syndrome: (  )  
**as.** Sleep apnea (*not breathing during sleep*): (  )  
**at.** Dermatologic disorders: (  )  
**au.** Myopathy: (  )  
**av.** Myositis: (  )  
**aw.** Major depression: (  )  
**ax.** Schizophrenia: (  )  
**ay.** Bipolar disorder: (  )  
**az.** Obsessive compulsive disorder: (  )  
**ba.** Severe anxiety or personality disorder: (  )  
**bb.** Substance abuse: (  )  
**bc.** None of the above: (  )
- 18.** Since the last visit, has the patient had bariatric surgery for any of the following (*check all that apply*)  
**a.** Stapling or banding of the stomach: (  )  
**b.** Jejunioleal (*or other intestinal*) bypass: (  )  
**c.** Biliopancreatic diversion: (  )  
**d.** Other GI or bariatric surgery, (*specify*): (  )  
 \_\_\_\_\_  
**e.** None of the above: (  )
- 19.** Since the last visit, has the patient received an organ, limb, or bone marrow transplant:  
Yes (  )      No (  )
- 20.** Since the last visit, has the patient received total parenteral nutrition (TPN):  
Yes (  )      No (  )
- 21.** Since the last visit, has the patient been hospitalized (*complete an Interim Event Report (IE) form if possibly or definitely associated with PIVENS study drugs and this event has not already been reported on an IE form*) :  
Yes (  )      No (  )  
22. \_\_\_\_\_
- If Yes, specify reason:*  
 \_\_\_\_\_  
specify



22. Since the last visit, has the patient had any other health problem not already reported (*complete an Interim Event Report (IE) form if possibly or definitely associated with PIVENS study drugs and the event has not already been reported on an IE form*):

Yes                      No  
 ( 1 )                       ( 2 )

**23.**

If Yes, specify:

\_\_\_\_\_ specify

### G. Medication use

23. Since the last visit, has the patient used any antidiabetic medications (*check all that apply*):

- a. Acarbose (Precose):  ( 1 )
- b. Acetohexamide (Dymelor):  ( 1 )
- c. Chlorpropamide (Diabinese):  ( 1 )
- d. Glimepiride (Amaryl):  ( 1 )
- e. Glipizide (Glucotrol, Glucator XL):  ( 1 )
- f. Glyburide (Micronase, DiaBeta, Glynase):  ( 1 )
- g. Insulin:  ( 1 )
- h. Metformin (Glucophage, Glucophage XR):  ( 1 )
- i. Miglitol (Glycet):  ( 1 )
- j. Nateglinide (Starlix):  ( 1 )
- k. Pioglitazone (Actos) (*do not include PIVENS study medication*):  ( 1 )
- l. Repaglinide (Prandin):  ( 1 )
- m. Rosiglitazone (Avandia):  ( 1 )
- n. Tolazamide (Tolinase):  ( 1 )
- o. Tolbutamide (Orinase):  ( 1 )
- p. Other, (*specify*):  ( 1 )

- \_\_\_\_\_
- q. None of the above:  ( 1 )

24. Since the last visit, has the patient taken any alcohol abuse (dependence or withdrawal) medications (*check all that apply*):

- a. Chlordiazepoxide (Librium):  ( 1 )
- b. Clorazepate dipotassium (Tranxene):  ( 1 )
- c. Diazepam (Valium):  ( 1 )
- d. Disulfiram (Antabuse):  ( 1 )
- e. Hydroxyzine pamoate (Vistaril):  ( 1 )
- f. Naltrexone hydrochloride (Revia):  ( 1 )
- g. Other, (*specify*):  ( 1 )

- \_\_\_\_\_
- h. None of the above:  ( 1 )

25. Since the last visit, has the patient taken any antihyperlipidemic medications (*check all that apply*):

- a. Atorvastatin (Lipitor):  ( 1 )
- b. Colestipol hydrochloride (Colestid):  ( 1 )
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate):  ( 1 )
- d. Gemfibrozil (Gen-Fibro, Lopid):  ( 1 )
- e. Fenofibrate (Tricor):  ( 1 )
- f. Fluvastatin sodium (Lescol):  ( 1 )
- g. Lovastatin (Mevacor):  ( 1 )
- h. Nicotinic acid (Niaspan):  ( 1 )
- i. Pravastatin sodium (Pravachol):  ( 1 )
- j. Rosuvastatin (Crestor):  ( 1 )
- k. Simvastatin (Zocor):  ( 1 )
- l. Other, (*specify*):  ( 1 )

- \_\_\_\_\_
- m. None of the above:  ( 1 )

- 26.** Since the last visit, has the patient taken any antiobesity medications (*check all that apply*):
- a.** Dexfenfluramine hydrochloride (Redux): (  )
  - b.** Fenfluramine hydrochloride (Pondimin): (  )
  - c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
  - d.** Orlistat (Xenical): (  )
  - e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
  - f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
  - g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
  - h.** Other, (*specify*): (  )  
\_\_\_\_\_
  - i.** Other, (*specify*): (  )  
\_\_\_\_\_
  - j.** None of the above: (  )
- 27.** Since the last visit, has the patient taken any antitumor necrosis factor (anti-TNF) therapies (*check all that apply*):
- a.** Etanercept (Enbrel): (  )
  - b.** Infliximab (Remicade): (  )
  - c.** Other, (*specify*): (  )  
\_\_\_\_\_ specify
  - d.** None of the above: (  )
- 28.** Since the last visit, has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications (*check all that apply*):
- a.** Acetaminophen (Tylenol): (  )
  - b.** Aspirin - 325 mg: (  )
  - c.** Aspirin - 81 mg: (  )
  - d.** Celecoxib (Celebrex): (  )
  - e.** Ibuprofen (Advil, Motrin): (  )
  - f.** Indomethacin (Indocin): (  )
  - g.** Naproxen (Aleve, Naprosyn): (  )
  - h.** Valdecoxib (Bextra): (  )
  - i.** Other, (*specify*): (  )  
\_\_\_\_\_
  - j.** Other, (*specify*): (  )  
\_\_\_\_\_
  - k.** Other, (*specify*): (  )  
\_\_\_\_\_
  - l.** None of the above: (  )
- 29.** Since the last visit, has the patient taken any strong opiate medications containing acetaminophen (*check all that apply*):
- a.** Darvocet: (  )
  - b.** Esgic - Plus: (  )
  - c.** Fioricet: (  )
  - d.** Lorcet: (  )
  - e.** Lortab: (  )
  - f.** Norco: (  )
  - g.** Percocet: (  )
  - h.** Talacen: (  )
  - i.** Tylenol #3: (  )
  - j.** Tylenol #4: (  )
  - k.** Tylox: (  )
  - l.** Vicodin: (  )
  - m.** Wygesic: (  )
  - n.** Other, (*specify*): (  )  
\_\_\_\_\_
  - o.** None of the above: (  )

**30.** Since the last visit, has the patient taken any histamine H2 receptor antagonists or other gastrointestinal medications (*check all that apply*):

- a.** Cimetidine (Tagamet): (  )
- b.** Esomeprazole magnesium (Nexium): (  )
- c.** Famotidine (Pepcid): (  )
- d.** Lansoprazole (Prevacid): (  )
- e.** Nizatidine (Axid): (  )
- f.** Omeprazole (Prilosec): (  )
- g.** Ranitidine (Zantac): (  )
- h.** Ranitidine bismuth citrate (Tritec): (  )
- i.** Antacids, (*specify*): (  )
- \_\_\_\_\_
- j.** Other, (*specify*): (  )
- \_\_\_\_\_
- k.** Other, (*specify*): (  )
- \_\_\_\_\_
- l.** None of the above: (  )

**31.** Since the last visit, has the patient taken any anticoagulant or antiplatelet medications (*check all that apply*):

- a.** Clopidogrel (Plavix): (  )
- b.** Dipyridamole: (  )
- c.** Heparin: (  )
- d.** Ticlopidine (Ticlid): (  )
- e.** Warfarin (Coumadin): (  )
- f.** Other, (*specify*): (  )
- \_\_\_\_\_
- g.** Other, (*specify*): (  )
- \_\_\_\_\_
- h.** None of the above: (  )

**32.** Since the last visit, has the patient taken any systemic corticosteroids (*check all that apply*):

- a.** Betamethasone sodium (Celestone): (  )
- b.** Cortisol: (  )
- c.** Cortisone: (  )
- d.** Dexamethasone (Decadron): (  )
- e.** Hydrocortisone (Hydrocortone): (  )
- f.** Methylprednisolone (Solu-Medrol): (  )
- g.** Prednisolone (Prelone): (  )
- h.** Prednisone: (  )
- i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
- j.** Other, (*specify*): (  )
- \_\_\_\_\_
- k.** Other, (*specify*): (  )
- \_\_\_\_\_
- l.** None of the above: (  )

**33.** Since the last visit, has the patient taken any cardiovascular or antihypertensive medications (*check all that apply*):

- a.** Amiodarone (Pacerone): (  )
- b.** Amlodipine besylate (Norvasc): (  )
- c.** Atenolol (Tenormin): (  )
- d.** Benazepril (Lotensin): (  )
- e.** Captopril (Capoten): (  )
- f.** Clonidine (Catapres): (  )
- g.** Digoxin (Lanoxin): (  )
- h.** Diltiazem (Cardizem): (  )
- i.** Doxazosin (Cardura): (  )
- j.** Enalapril (Vasotec): (  )
- k.** Felodipine (Plendil): (  )
- l.** Furosemide (Lasix): (  )
- m.** Hydrochlorothiazide (Esidrix, HydroDIURIL): (  )
- n.** Hydrochlorothiazide + triamterene (Dyazide): (  )
- o.** Lisinopril (Prinivil, Zestril): (  )
- p.** Losartan potassium (Cozaar): (  )
- q.** Losartan potassium with hydrochlorothiazide (Hyzaar): (  )
- r.** Metoprolol (Lopressor): (  )
- s.** Nifedipine (Adalat, Procardia): (  )
- t.** Perhexiline maleate: (  )
- u.** Propranolol (Inderal): (  )
- v.** Quinapril (Accupril): (  )
- w.** Terazosin (Hytrin): (  )
- x.** Timolol maleate (Blocadren): (  )
- y.** Valsartan (Diovan): (  )
- z.** Verapamil (Calan): (  )
- aa.** Other, (*specify*): (  )
- 
- ab.** Other, (*specify*): (  )
- 
- ac.** None of the above: (  )

**34.** Since the last visit, has the patient taken any estrogen, progestin, anabolic steroids, hormone replacement therapy, or selective estrogen receptor modulators (*check all that apply*):

- a.** Conjugated estrogen (Premarin/Prempro): (  )
- b.** Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
- c.** Esterified estrogen (Estratab, Menest): (  )
- d.** Estradiol (Estrace): (  )
- e.** Ethinyl estradiol (Estinyl): (  )
- f.** Fluoxymesterone (Android-F, Halotestin): (  )
- g.** Levonorgestrel (Norplant): (  )
- h.** Medroxyprogesterone (Cycrin, Provera): (  )
- i.** Megestrol (Megace): (  )
- j.** Methyltestosterone (Android): (  )
- k.** Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): (  )
- l.** Norethindrone (Micronor): (  )
- m.** Norgestrel (Ovrette): (  )
- n.** Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
- o.** Oxandrolone (Oxandrin): (  )
- p.** Oxymetholone (Anadrol): (  )
- q.** Progesterone (Prometrium): (  )
- r.** Raloxifene (Evista): (  )
- s.** Tamoxifen (Nolvadex): (  )
- t.** Other, (*specify*): (  )
- 
- u.** Other, (*specify*): (  )
- 
- v.** None of the above: (  )

- 35.** Since the last visit, has the patient taken any allergy or asthma medications (*check all that apply*):
- a.** Albuterol: (  )
  - b.** Beclomethasone dipropionate (Beclovent, Vanceryl): (  )
  - c.** Budesonide (Pulmicort, Rhinocort): (  )
  - d.** Fluticasone propionate (Flonase, Flovent): (  )
  - e.** Loratadine (Claritin): (  )
  - f.** Mometasone furoate (Nasonex): (  )
  - g.** Triamcinolone acetonide (Azmacort, Nasacort): (  )
  - h.** Other, (*specify*): (  )  
\_\_\_\_\_
  - i.** Other, (*specify*): (  )  
\_\_\_\_\_
  - j.** None of the above: (  )

- 36.** Since the last visit, has the patient taken a multivitamin regularly:
- ( Yes ) ( No )  
(  ) (  )

- 37.** Since the last visit, has the patient taken vitamins other than multivitamins (*do not include PIVENS study medication*):
- ( Yes ) ( No )  
(  ) (  )
- 40.**

- 38.** Which vitamins has the patient taken (*check all that apply*):
- a.** Vitamin B (any type): (  )
  - b.** Vitamin C: (  )
  - c.** Vitamin D: (  )
  - d.** Vitamin E (alpha-tocopherol): (  )
  - e.** Other, (*specify*): (  )  
\_\_\_\_\_

- 39.** Is the patient currently taking vitamin E at a dose greater than 100 IU/day (*do not include PIVENS study medication*):
- ( Yes ) ( No )  
( \* ) (  )

*\*Remind patient not to take vitamin E supplements at doses greater than 100 IU/day during PIVENS.*

- 40.** Since the last visit, has the patient taken any supplements (*check all that apply*):
- a.** Alpha-lipoic acid: (  )
  - b.** Beta-carotene: (  )
  - c.** Betaine (Cystadane): (  )
  - d.** Calcium (any form): (  )
  - e.** Carnitine (any form): (  )
  - f.** Chondroitin (any form): (  )
  - g.** Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
  - h.** Cod liver oil: (  )
  - i.** Coenzyme Q: (  )
  - j.** Dichloroacetate: (  )
  - k.** Echinacea: (  )
  - l.** Fish oil (any form): (  )
  - m.** Flax seed oil: (  )
  - n.** Garlic: (  )
  - o.** Ginkgo biloba: (  )
  - p.** Glucosamine (any form): (  )
  - q.** Lecithin: (  )
  - r.** Magnesium: (  )
  - s.** Milk thistle: (  )
  - t.** N-acetyl-cysteine: (  )
  - u.** Potassium (any form): (  )
  - v.** Probiotics (any form): (  )
  - w.** S-adenylmethionine (SAM-e): (  )
  - x.** Saw palmetto: (  )
  - y.** Selenium: (  )
  - z.** St. John's Wort: (  )
  - aa.** Taurine: (  )
  - ab.** Zinc picolinate: (  )
  - ac.** Other, (*specify*): (  )  
\_\_\_\_\_
  - ad.** Other, (*specify*): (  )  
\_\_\_\_\_
  - ae.** None of the above: (  )











**D. Event description**

15. Is the event associated with PIVENS study drugs:

Yes ( 1 )       No ( 2 )  
18.

16. Is the event due to the pioglitazone-series study drug:

Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

17. Is the event due to the vitamin E-series study drug:

Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

18. Date event started:

\_\_\_\_\_  
 day                      mon                      year

19. Nature of event (*check all that apply*)

- a. Drug dispensing mixup: ( 1 )
- b. Medication related event: ( 1 )
- c. Study procedure related event: ( 1 )
- d. Drug interactions: ( 1 )
- e. Worsening of a co-morbid illness: ( 1 )
- f. Patient reported symptom of hepatotoxicity: ( 1 )
- g. Hypoglycemia: ( 1 )
- h. New-onset diabetes: ( 1 )
- i. Pregnancy (*patient*): ( \* )
- j. Other (*specify*): ( 1 )

\_\_\_\_\_

\_\_\_\_\_

*\*PIVENS study drugs will be discontinued if a patient becomes pregnant. Contact the NASH CRN Data Coordinating Center to unmask the study drugs. Complete a Study Drug Dispensing and Return (RD) Form.*

20. Describe event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Short name for event if applicable (*short names for AEs are listed in the CTCAE v3.0 document available at [www.nashcrn.com](http://www.nashcrn.com); click on Documents and then click on General Documents*):

Not applicable ( 0 )

\_\_\_\_\_

\_\_\_\_\_

22. Severity grade (*severity grades are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents; use Serious Adverse Event Report (AN) to report serious and unexpected adverse events of call the DCC if unsure what to do:*

- Not applicable ( 0 )
- Grade 1 - Mild ( 1 )
- Grade 2 - Moderate ( 2 )
- Grade 3 - Severe ( 3 )
- Grade 4 - Life threatening or disabling ( 4 )
- Grade 5 - Death ( \* 5 )

*\*Complete and key Death Report (DR) form.*

23. Date event resolved (*enter n if event is not yet resolved*):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

24. What action was taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

25. Other comments on event:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**E. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Study Physician PIN: \_\_\_\_\_

29. Study Physician signature:  
\_\_\_\_\_

30. Date form reviewed:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

*Key this form and fax the DCC (Attention: Aynur Ünalp-Arida) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious events so that we assure appropriate and timely study wide review. The received reports will be reviewed by Jeanne Clark, the Safety Officer, for appropriate further review by the Steering Committee and Data and Safety Monitoring Board.*

## PIVENS

LD – Lifetime Drinking History  
(Skinner)

**Purpose:** To obtain quantitative indices of the patient's alcohol consumption patterns from the onset of regular drinking.

**When:** Visit s2. If more than one LD form is needed, use visit code "n" on the second LD form.

**Administered by:** Clinical Coordinator.

**Respondent:** Patient, without help from spouse or family.

**Instructions:** In addition to actual consumption levels (quantity), attention is focused upon the frequency of use, variability in consumption, types of beverages, life events that mark a change in drinking pattern, solitary versus social drinking, and time of day when alcohol is consumed. Flash Card #7, Drink Equivalents, may be used with this interview.

The interviewer begins by recording the patient's alcohol consumption behavior during the first year that he/she drank on a regular basis (at least one drink per month). Then, the patient is asked to think of when his/her drinking behavior changed in any appreciable way. In a chronological fashion, the interviewer traces the patient's alcohol consumption behavior from the age of first regular drinking to the present. Flash Card #8, Patterns of Alcohol Intake, provides sample language for the interviewer. Each LD form allows for describing six drinking phases. Use a second LD form (visit code "n") if needed to describe additional drinking phases. If this is the second LD form, skip sections B and C and start with item 20.

The interview takes approximately 20 minutes to complete. It is best given after a reasonable degree of rapport has been established, whereby the patient will feel more at ease and talk openly. Other, considerable probing and cross-referencing of facts is necessary to help in accurate recall. All information should be recorded under the appropriate heading on the LD form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code:   s     2   \_\_\_\_\_
6. Form & revision:   1     d     1
7. Study:   PIVENS 2

## B. Lifetime alcohol consumption

8. Over the course of your lifetime have you ever had at least one drink of alcohol, beer, liquor, wine, or wine coolers, per month during a 12-month time period, or at least three drinks per day for at least three consecutive days (over a regular period of time):

Yes ( 1 )      No ( 2 )  
 81. ←

**C. First phase**

**Read as written:** "Now, I am going to ask you about your drinking pattern during the first year that you began to have at least one drink per month until your drinking behavior was different in a significant way from this time."

9. How old were you when you began regular drinking:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

10. How old were you at the end of first stage:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

11. During the first stage, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

12. How many days per month would you generally drink at this level:

\_\_\_\_\_ # days

13. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

14. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

15. How would you rate your usual style of drinking during an average month (*check the appropriate category*);

- Abstinent ( 1)
- Occasional (*less than 15 days*) ( 2)
- Weekend mainly ( 3)
- Binge (*at least 3 days heavy drinking*) ( 4)
- Frequent (*15 days or more per month*) ( 5)

16. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1) ( 2)

**18.** ←

17. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1)	( 2)	( 3)
b. Work .....	( 1)	( 2)	( 3)
c. School .....	( 1)	( 2)	( 3)
d. Medical .....	( 1)	( 2)	( 3)
e. Residence .....	( 1)	( 2)	( 3)
f. Legal/jail .....	( 1)	( 2)	( 3)
g. Financial .....	( 1)	( 2)	( 3)
h. Peer group .....	( 1)	( 2)	( 3)
i. Drug abuse .....	( 1)	( 2)	( 3)
j. Treatment .....	( 1)	( 2)	( 3)
k. Death .....	( 1)	( 2)	( 3)
l. Emotional .....	( 1)	( 2)	( 3)

18. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

19. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**D. Subsequent phase**

20. **Read as written:** "We have just discussed your drinking habits at the point when you first began to drink regularly. Now I want you to think to when your drinking behavior was different in a significant way from this time. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes ( 1 ) No ( 2 )

81. ←

21. How old were you at the beginning of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

22. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

23. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

24. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

25. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

26. What type of beverage would you usually consume in an average month (record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

27. How would you rate your usual style of drinking during an average month (check the appropriate category):

Abstinent ( 1 )

Occasional (less than 15 days) ( 2 )

Weekend mainly ( 3 )

Binge (at least 3 days heavy drinking) ( 4 )

Frequent (15 days or more per month) ( 5 )

28. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

30. ←

29. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family ...	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

30. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

31. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**E. Next subsequent phase**

32. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at a subsequent phase. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

33. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

34. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

35. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

36. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

37. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

38. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

39. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

40. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

42. ←

41. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

42. What percentage of time would you drink alone, and what percentage of the time with at least one other person (record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

43. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**F. Next subsequent phase**

44. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

45. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

46. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

47. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

48. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

49. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)



50. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer	_____	_____	_____
		%	
Liquor	_____	_____	_____
		%	
Wine	_____	_____	_____
		%	

51. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent	(	1	)
Occasional ( <i>less than 15 days</i> )	(	2	)
Weekend mainly	(	3	)
Binge ( <i>at least 3 days heavy drinking</i> )	(	4	)
Frequent ( <i>15 days or more per month</i> )	(	5	)

52. Did any important event or events occur during this period that altered your usual drinking habits:

	Yes	No
	( 1 )	( 2 )

**54.** ←

53. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

54. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone	_____	_____	_____
		%	
With others	_____	_____	_____
		%	

55. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning	_____	_____	_____
		%	
Afternoon	_____	_____	_____
		%	
Evening	_____	_____	_____
		%	

**G. Next subsequent phase**

56. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

	Yes	No
	( 1 )	( 2 )

**81.** ←

57. How old were you at the beginning of the phase:

a. Years:	_____	_____
		yrs
b. Months:	_____	_____
		mos

58. How old were you at the end of this phase:

a. Years:	_____	_____
		yrs
b. Months:	_____	_____
		mos

59. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

60. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

61. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

62. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

63. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1)
- Occasional (*less than 15 days*) ( 2)
- Weekend mainly ( 3)
- Binge (*at least 3 days heavy drinking*) ( 4)
- Frequent (*15 days or more per month*) ( 5)

64. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1) ( 2)

66. ←

65. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1)	( 2)	( 3)
b. Work .....	( 1)	( 2)	( 3)
c. School .....	( 1)	( 2)	( 3)
d. Medical .....	( 1)	( 2)	( 3)
e. Residence .....	( 1)	( 2)	( 3)
f. Legal/jail .....	( 1)	( 2)	( 3)
g. Financial .....	( 1)	( 2)	( 3)
h. Peer group .....	( 1)	( 2)	( 3)
i. Drug abuse .....	( 1)	( 2)	( 3)
j. Treatment .....	( 1)	( 2)	( 3)
k. Death .....	( 1)	( 2)	( 3)
l. Emotional .....	( 1)	( 2)	( 3)

66. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

67. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**H. Next subsequent phase**

**68. Read as written:** “We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?”:

Yes ( 1 )      No ( 2 )

**81.** ←

**69.** How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**70.** How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**71.** During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

**72.** How many days per month would you generally drink at this level (*write “m” if not drinking*):

\_\_\_\_\_ # days

**73.** What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

*(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)*

**74.** What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be “000”*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

**75.** How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

**76.** Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 )      No ( 2 )

**78.** ←

**77.** What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient’s drinking pattern, check “1” for positive effect or “2” for negative effect or “3” for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )





## Symptoms of Liver Disease

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

**Instructions:** People with liver disease may or may not have symptoms, such as pain over the liver area (right upper quadrant), nausea, poor appetite, itching, tiredness, or fatigue. In this questionnaire, we are trying to identify what symptoms you have, how severe they are, and how much they affect your life style.

*(Items 1-9 are reserved for clinical center use.)*

**10.** During the last month, how much have you been bothered by the following:  
*Circle one for each symptom*

	<b>Degree of bother</b>				
	<b>None at all</b>	<b>A little bit</b>	<b>Moderately</b>	<b>Quite a bit</b>	<b>Extremely</b>
<b>a.</b> Pain over liver (right upper quadrant)	1	2	3	4	5
<b>b.</b> Nausea	1	2	3	4	5
<b>c.</b> Poor appetite	1	2	3	4	5
<b>d.</b> Fatigue	1	2	3	4	5
<b>e.</b> Weight loss	1	2	3	4	5
<b>f.</b> Diarrhea	1	2	3	4	5
<b>g.</b> Muscle aches or cramps	1	2	3	4	5
<b>h.</b> Muscle weakness	1	2	3	4	5
<b>i.</b> Headaches	1	2	3	4	5
<b>j.</b> Easy bruising	1	2	3	4	5
<b>k.</b> Itching	1	2	3	4	5
<b>l.</b> Irritability	1	2	3	4	5
<b>m.</b> Depression/sadness	1	2	3	4	5
<b>n.</b> Trouble sleeping	1	2	3	4	5
<b>o.</b> Trouble concentrating	1	2	3	4	5
<b>p.</b> Jaundice (yellow color to skin, eyes, etc)	1	2	3	4	5
<b>q.</b> Dark urine	1	2	3	4	5
<b>r.</b> Swelling of ankles	1	2	3	4	5
<b>s.</b> Swelling of abdomen	1	2	3	4	5

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

11. Which of the following best describes your level of fatigue and the effects of your fatigue (*choose only one*):

*Circle one*

- I feel completely normal and have no fatigue (**circle "1" and go to item # 16**) ..... 1
- I have some fatigue, but I can do what I want to do without difficulty ..... 2
- I have fatigue, and I do what I want to do but with difficulty ..... 3
- I have fatigue and it keeps me from doing what I want to do ..... 4
- I have fatigue that prevents me from working ..... 5
- I have fatigue that prevents me from working and requires that I have assistance to carry out normal activities of living ..... 6
- I am worse off than any of these statements suggest ..... 7

12. How frequently are you bothered by fatigue (*choose only one*):

- All day, every day ..... 1
- Part of the day, every day ..... 2
- At least part of several days a week ..... 3
- At least part of one day a week ..... 4
- Less frequently ..... 5

13. Is your fatigue typically present (*choose only one*):

- When you wake up in the morning ..... 1
- Or does it come on with the day ..... 2
- Or does it have no time pattern ..... 3

14. Is your fatigue typically worse the day after a period of extra activity or exercise:

- Yes ..... 1
- No ..... 2

<i>Affix label here</i>	
Patient ID:	___ ___ ___
Patient code:	___ ___
Visit code:	___ ___

**15.** Do you believe that your fatigue is due to your liver problem (as opposed to something else, like not getting enough sleep, depression or being out of shape):

*Circle one*

- Yes ..... 1
- No ..... 2

**16.** In general, how have you felt overall in the past month:

- Very good ..... 1
- Good ..... 2
- Fair ..... 3
- Poor ..... 4
- Awful ..... 5

**17.** Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**



## PIVENS

## LR - Laboratory Results - Tests Done at s1 and During Followup

**Purpose:** To record archival and current laboratory test results for tests done during both screening and followup.

**When:** Visits s1, f002, f004, f008, f012, f016, f024, f032, f040, f048, f056, f064, f072, f080, f088, f096, and f120.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. Complete tests as needed (repeat tests if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use a calculator if you need to convert units to match the units specified on this form. Call the DCC if you have any questions about conversions or how to record a value. If  is checked in item 59, the patient is not eligible for PIVENS and the form should not be keyed. Attach copies of the laboratory reports to this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision: 1 r 1

7. Study: PIVENS 2

### B. Hematology

*Required at visits s1, f024, f048, f096, and f120.*

8. Is hematology testing required at this visit:  
 (Yes) (No)  
 ( 1 ) ( 2 )  
 **14.**

9. Date of blood draw for complete blood count:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year  
*Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's PIVENS visit time window guide).*

10. Hemoglobin: \_\_\_\_\_ g/dL

11. Hematocrit: \_\_\_\_\_ %

### 12. White blood cell count (WBC):

\_\_\_\_\_ • \_\_\_\_\_  
 $10^3$  cells/  $\mu$ L or  $10^9$  cells/L

### 13. Platelet count:

\_\_\_\_\_ , \_\_\_\_\_  
 cells/  $\mu$ L

### C. Chemistries

*Required at visits s1, f024, f048, and f096.*

14. Is metabolic panel required at this visit:  
 (Yes) (No)  
 ( 1 ) ( 2 )  
 **27.**

### 15. Date of blood draw for chemistries:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's PIVENS visit time window guide).*

16. Sodium: \_\_\_\_\_ mEq/L

17. Potassium: \_\_\_\_\_ mEq/L

18. Chloride: \_\_\_\_\_ mEq/L

19. Bicarbonate: \_\_\_\_\_ mEq/L

20. Calcium: \_\_\_\_\_ mg/dL

21. Phosphate: \_\_\_\_\_ mg/dL

22. Blood urea nitrogen (BUN): \_\_\_\_\_ mg/dL

23. Creatinine (if serum creatinine  $\geq 2.0$  mg/dL, patient is ineligible):

\_\_\_\_\_ ● \_\_\_\_\_  
mg/dL

24. Uric acid:

\_\_\_\_\_ ● \_\_\_\_\_  
mg/dL

25. Albumin (if albumin  $< 3.0$  g/dL and physician judges patient has cirrhosis, patient is ineligible):

\_\_\_\_\_ ● \_\_\_\_\_  
g/dL

26. Total protein:

\_\_\_\_\_ ● \_\_\_\_\_  
g/dL

**D. Prothrombin time, GGT, and HbA1c**

Required at visits f048 and f096.

27. Are the prothrombin time, GGT, and HbA1c tests required a this visit:

( Yes ) ( No )  
( 1 ) ( 2 )  
**33.**

28. Date of blood draw for prothrombin time, GGT, and HbA1c:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

Date must be in the time window for the followup visit (check the patient's PIVENS visit time window guide).

29. Prothrombin time (PT):

\_\_\_\_\_ ● \_\_\_\_\_  
sec

30. International normalized ratio (INR):

\_\_\_\_\_ ● \_\_\_\_\_

31. Gamma glutamyl transferase (GGT):

\_\_\_\_\_ / \_\_\_\_\_  
U/L

32. HbA1c:

\_\_\_\_\_ ● \_\_\_\_\_  
%

**E. Liver panel**

Required at visits f002, f004, f008, f012, f016, f024, f032, f040, f048, f056, f064, f072, f080, f088, f096, and f120.

33. Is hepatic panel required at this visit:

( Yes ) ( No )  
( 1 ) ( 2 )  
**40.**

34. Date of blood draw for liver panel:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

Date must be in the time window for the followup visit (check the patient's PIVENS visit time window guide).

35. Bilirubin (total):

\_\_\_\_\_ ● \_\_\_\_\_  
mg/dL

36. Bilirubin (conjugated or direct):

\_\_\_\_\_ ● \_\_\_\_\_  
mg/dL

37. Aspartate aminotransferase (AST)

\_\_\_\_\_ / \_\_\_\_\_  
U/L

a. Upper limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

b. Lower limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

38. Alanine aminotransferase (ALT)

\_\_\_\_\_ / \_\_\_\_\_  
U/L

a. Upper limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

b. Lower limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

39. Alkaline phosphatase

\_\_\_\_\_ / \_\_\_\_\_  
U/L

a. Upper limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

b. Lower limit of normal:

\_\_\_\_\_ / \_\_\_\_\_  
U/L

**F. Fasting lipid profile**

Required at visits s1, f048, f096, and f120.

Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.

40. Is fasting lipid profile required at this visit:

Yes ( 1 )      No ( 2 )  
 42.

41. Date of blood draw for fasting lipid profile:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's PIVENS visit time window guide).

a. Triglycerides: \_\_\_\_\_ mg/dL

b. Total cholesterol: \_\_\_\_\_ mg/dL

c. HDL cholesterol level: \_\_\_\_\_ mg/dL

d. LDL cholesterol level: \_\_\_\_\_ mg/dL

**G. Fasting glucose**

Required at visits s1, f024, and f072. Also required at visits f048, f096, and f120 if the patient is diabetic.

Fasting is defined as nothing by mouth except water for at least 12 hours prior to blood draw.

42. Is fasting glucose required at this visit:

Yes ( 1 )      No ( 2 )  
 45.

43. Date of blood draw for fasting glucose level:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's PIVENS visit time window guide).

44. Serum glucose (if fasting glucose  $\geq$  126 mg/dL, patient is ineligible):

\_\_\_\_\_ / \_\_\_\_\_  
 mg/dL

**H. Oral glucose tolerance test**

Required at visits f048, f096, and f120.

The oral glucose tolerance test will be performed in the morning after a 12-hour overnight fasting. Baseline blood sample will be obtained for measurements of serum glucose, insulin, and C peptide. Subsequent blood samples will be obtained every 30 minutes for 120 minutes for the measurement of serum glucose and insulin after oral administration of flavored glucose solution in a dose of 75 g.

45. Is oral glucose tolerance test (OGTT) required at this visit:

Yes ( 1 )  
 No ( 2 )  
 52. No, patient is diabetic ( 3 )  
 52.

46. Date of blood draw for OGTT:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

Date must be in the time window for the followup visit (check the patient's PIVENS visit time window guide).

47. OGTT results at baseline

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

c. Serum C peptide: \_\_\_\_\_ ng/mL

48. OGTT results at 30 minutes

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

49. OGTT results at 1 hour

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

50. OGTT results at 90 minutes

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

51. OGTT results at 2 hours

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

I. Microalbuminuria

Required at visits f048, f096, and f120.

52. Is microalbuminuria required at this visit:

( Yes ) ( No )  
( 1 ) ( 2 )

55.

53. Date of urine collection for dipstick:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's PIVENS visit time window guide).

54. Microalbuminuria:

Positive ( 1 )

Negative ( 2 )

J. Pregnancy test

Required at all study visits if applicable.

55. Is pregnancy test applicable:

( Yes ) ( No )  
( 1 ) ( 2 )

58.

56. Date of urine collection (or blood draw):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be the same day as date of visit.

57. Pregnancy test result (if pregnancy test is positive at s1, patient is ineligible):

Positive ( 1 )

Negative ( 2 )

K. Eligibility check

58. Is this the s1 visit:

( Yes ) ( No )  
( 1 ) ( 2 )

60.

59. Was the patient found to be ineligible based on creatinine (item 23), albumin (item 25), serum glucose (item 44), or pregnancy test (item 57):

( Yes ) ( No )  
( 1 ) ( 2 )

60.

L. Administrative information

60. Study Physician PIN: \_\_\_\_\_

61. Study Physician signature: \_\_\_\_\_

62. Clinical Coordinator PIN: \_\_\_\_\_

63. Clinical Coordinator signature: \_\_\_\_\_

64. Date form reviewed:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**C. Autoantibody studies**

9. Date of blood draw for autoantibody studies:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

Repeat if date is greater than 5 years prior to screening.

10. Antinuclear antibody (ANA):

Positive ( \* 1 )


Negative ( 2 )

12.

a. If positive, ANA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

11. Is ANA titration greater than 1:80

Yes ( \* 1 )      No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for autoimmune liver disease.

12. Antimitochondrial antibody (AMA):

Positive ( \* 1 )


Negative ( 2 )

14.

a. If positive, AMA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

13. Is AMA titration greater than 1:80

Yes ( \* 1 )      No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for primary biliary cirrhosis.

14. Antismooth muscle antibody (ASMA):

Positive ( \* 1 )

Negative ( 2 )

15.

a. If positive, ASMA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

**D. Ceruloplasmin**

15. Is patient 40 years old or younger:

Yes ( \* 1 )      No ( 2 )

18.

16. Date of blood draw for ceruloplasmin: (required only if patient is 40 years old or younger):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year


Repeat if date is greater than 10 years prior to screening.

17. Ceruloplasmin

\_\_\_\_\_ mg/dL

a. Lower limit of normal: \_\_\_\_\_ mg/dL

b. Is ceruloplasmin below the lower limit of normal:

Yes ( \* 1 )      No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for Wilson's Disease.

**E. Alpha-1 antitrypsin**

18. Date of blood draw for alpha-1 antitrypsin (A1AT):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year


Repeat if date is greater than 10 years prior to screening.

19. Alpha-1 antitrypsin (A1AT)

\_\_\_\_\_ mg/dL

a. Lower limit of normal: \_\_\_\_\_ mg/dL

b. Is A1AT below the lower limit of normal:

Yes ( \* 1 )      No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for A1AT deficiency.

**F. Iron**

20. Date of blood draw for iron overload screening:

\_\_\_\_ day      \_\_\_\_ mon      \_\_\_\_ year

*Repeat if date is greater than 5 years prior to screening.*

a. Iron: \_\_\_\_\_  $\mu\text{g/dL}$

b. Total Iron Binding Capacity: \_\_\_\_\_  $\mu\text{g/dL}$

c. Ferritin: \_\_\_\_\_  $\text{ng/mL}$

21. Is hepatic iron index available:

( Yes )      ( No )  
 ( 1 )      ( 2 )

23.

22. Hepatic iron index: \_\_\_\_\_  $\mu\text{mol/g/year}$

**G. Administrative information**

23. Study Physician PIN: \_\_\_\_\_

24. Study Physician signature:  
 \_\_\_\_\_

25. Clinic Coordinator PIN: \_\_\_\_\_

26. Clinic Coordinator signature:  
 \_\_\_\_\_

27. Date form reviewed:  
 \_\_\_\_ day      \_\_\_\_ mon      \_\_\_\_ year

## PIVENS

## LT - Liver Tissue Banking

**Purpose:** To document collection of extra liver tissue and flash freeze procedures for specimen banking.

**When:** Visits s1 and f096 and as needed for non-protocol biopsies, when more than 2 cm of liver tissue are obtained during a biopsy. This form is expected when the Liver Biopsy Materials Documentation (SD) form says liver tissue was obtained for banking.

**By whom:** Clinical Coordinator.

**Instructions:** Liver biopsy tissue should be obtained by a needle core biopsy (as opposed to a wedge biopsy) using a 16 or greater gauge needle. Whenever more than 2 cm of tissue are obtained during biopsy, place a 1-2 mm segment of liver tissue into a 2.0 mL polypropylene cryovial with preprinted label attached. Flash freeze liver tissue immediately (within 5 minutes following biopsy) by placing labeled cryovial containing liver tissue into a portable liquid nitrogen container. Store the cryovial locally in -70° C (or colder) freezer temporarily and batch ship cryovials on dry ice monthly to the NIDDK Biosample Repository located at McKesson Bioservices.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated:  
 \_\_\_\_\_  
 day mon year

5. Visit code (*s1 or f096*): \_\_\_\_\_

6. Form & revision: 1 t 1

7. Study: PIVENS 2

## B. Liver biopsy

8. Date of biopsy:  
 \_\_\_\_\_  
 day mon year

9. Was the liver tissue obtained using a 16-gauge or greater needle:  
 Yes ( 1 ) No ( 2 )

10. Was liver tissue obtained via a second pass:  
 Yes ( 1 ) No ( 2 )

11. Was the liver tissue obtained from a needle core biopsy (*as opposed to a wedge biopsy*):  
 Yes ( 1 ) No ( 2 )

## C. Cryovial label

12. Attach duplicate cryovial label (*make sure you attach the duplicate of the label attached to the cryovial holding the liver tissue from this biopsy*):

## D. Flash freeze procedures

13. Was tissue flash frozen within 5 minutes of biopsy by placing in portable liquid nitrogen container:  
 Yes ( 1 ) No ( 2 )

15. \_\_\_\_\_

14. Explain what was done and why protocol was not followed:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



15. Was tissue shipped on dry ice to the Biosample Repository on same day as biopsy:

( Yes )      ( No )  
      ( 1 )      ( 2 )  
17.

16. Describe conditions of local storage prior to shipment to the Biosample Repository (e.g., temperature, date and time placed in freezer):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

17. Clinical Coordinator PIN:      — — —

18. Clinical Coordinator signature:  
\_\_\_\_\_

19. Date form reviewed:  
    — — — — —  
      day            mon            year

## PIVENS

## LU - Laboratory Results - Tests Required at Visit s2

**Purpose:** To record archival and current laboratory test results for tests required at visit s2.

**When:** Visit s2.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. Complete tests as needed (repeat tests if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use a calculator if you need to convert units to match the units specified on this form. Call the DCC if you have any questions about conversions or how to record a value. If  is checked in item 29, the patient is not eligible for PIVENS and the form should not be keyed. Attach copies of the laboratory reports to this form.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      s    2                      \_\_\_\_\_

6. Form & revision:                      1    u    1

7. Study:                                      PIVENS 2

**B. Prothrombin time, GGT, and HbA1c**

8. Date of blood draw for prothrombin time, GGT, and HbA1c:  
 \_\_\_\_\_  
 day                      mon                      year  
*Date must be within 3 months of screening.*

9. Prothrombin time (PT):                      •  
 \_\_\_\_\_  
 sec

10. International normalized ratio (INR) (*if INR > 1.3 and physician judges patient has cirrhosis, patient is ineligible*):  
 \_\_\_\_\_  
 •  
 \_\_\_\_\_

11. Gamma glutamyl transferase (GGT):  
 \_\_\_\_\_  
 U/L

12. HbA1c:                                      •  
 \_\_\_\_\_  
 %

**C. Liver panel**

13. Date of blood draw for liver panel:  
 \_\_\_\_\_  
 day                      mon                      year  
*Date must be within within 3 months of screening.*

14. Bilirubin (total):                      •  
 \_\_\_\_\_  
 mg/dL

15. Bilirubin (conjugated or direct) (*if conjugated bilirubin > 2 mg/dL and physician judges patient has cirrhosis, patient is ineligible*):

\_\_\_\_\_  
 •  
 mg/dL

16. Aspartate aminotransferase (AST)  
 \_\_\_\_\_  
 U/L

a. Upper limit of normal:                      \_\_\_\_\_  
 U/L

b. Lower limit of normal:                      \_\_\_\_\_  
 U/L

17. Alanine aminotransferase (ALT) (*if ALT > 300 U/L, patient is ineligible*)  
 \_\_\_\_\_  
 U/L

a. Upper limit of normal:                      \_\_\_\_\_  
 U/L

b. Lower limit of normal:                      \_\_\_\_\_  
 U/L

18. Alkaline phosphatase  
 \_\_\_\_\_  
 U/L

a. Upper limit of normal:                      \_\_\_\_\_  
 U/L

b. Lower limit of normal:                      \_\_\_\_\_  
 U/L

**D. Oral glucose tolerance test**

*The oral glucose tolerance test will be performed in the morning after a 12-hour overnight fasting. Baseline blood sample will be obtained for measurements of serum glucose, insulin, and C peptide. Subsequent blood samples will be obtained every 30 minutes for 120 minutes for the measurement of serum glucose and insulin after oral administration of flavored glucose solution in a dose of 75 g.*

19. Date of blood draw for OGTT:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Date must be within 3 months of screening.*

20. OGTT results at baseline

a. Serum glucose (if fasting glucose  $\geq 126$  mg/dL, patient is ineligible):

\_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

c. Serum C peptide: \_\_\_\_\_ ng/mL

21. OGTT results at 30 minutes

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

22. OGTT results at 1 hour

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

23. OGTT results at 90 minutes

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

24. OGTT results at 2 hours

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_  $\mu$ U/mL

**E. Microalbuminuria**

25. Date of urine collection for dipstick:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Date must be within 3 months of screening.*

26. Microalbuminuria:

Positive ( 1 )

Negative ( 2 )

**F. Pregnancy test**

27. Is pregnancy test applicable:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**30.**

28. Date of urine collection (or blood draw):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

*Date must be the same day as date of visit.*

29. Pregnancy test results (if pregnancy test is positive, patient is ineligible):

Positive ( 1 )

Negative ( 2 )

**G. Eligibility check**

30. Was the patient found to be ineligible based on INR (item 10), conjugated (or direct) bilirubin (item 15), ALT (item 17), glucose (item 20a), or pregnancy test (item 29):

( Yes ) ( No )  
 ( 1 ) ( 2 )

**Elig**

**H. Administrative information**

31. Study Physician PIN: \_\_\_\_\_

32. Study Physician signature:  
\_\_\_\_\_

33. Clinical Coordinator PIN: \_\_\_\_\_

34. Clinical Coordinator signature:  
\_\_\_\_\_

35. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year



**12. Reason form(s) not completed**  
*(check all that apply)*

- a. Patient was ill: (  )
- b. Patient refused procedure: (  )
- c. Procedure forgotten: (  )
- d. Other *(specify)*: (  )

\_\_\_\_\_

specify

**13. Attempts made to complete form(s)**  
*(check all that apply)*

- a. Attempted to reschedule procedure: (  )
- b. Attempted to collect interview data by phone from patient: (  )
- c. Attempted to gain patient cooperation: (  )
- d. Other *(specify)*: (  )

\_\_\_\_\_

specify

**E. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
\_\_\_\_\_

16. Date form reviewed:  
\_\_\_\_\_

          day          mon          year

## PIVENS

## PA – Physical Activity

**Purpose:** To obtain the patient's physical activity.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered, but Clinical Coordinator must be available at visits to answer questions and review the completed form.

**Respondent:** Patient, without help from spouse or family.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to each of pages 2-4.

**Screening:** The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-4. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should complete section B below. **Followup:** Pages 2-4 may be mailed to the patient 2 weeks prior to the scheduled study visit with instructions to complete the form at home and to bring the completed form to the next study visit. When the patient returns for the visit, the Clinical Coordinator should review the form for completeness and obtain responses for missing items during the visit. If the patient did not bring a completed form to the visit, the patient should complete the form at the visit. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should complete section B. Item 4 should be completed with the date the patient wrote in item 39. If the patient did not write in a date, use the date of the study visit for the visit date.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   p     a     1  

7. Study: PIVENS   2  

### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

9. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

<i>Affix label here</i>	
Patient ID:	___ ___ ___
Patient code:	___ ___
Visit code:	___ ___

**PA - Physical Activity**

**Instructions:** This survey asks for your views about your physical activity. *(Items 1-9 are reserved for clinical center use).*

**C. Non-Recreational Activity (Work Related)**

The following questions are about your non-recreational activity. Non-recreational activity is what you consider your main day to day activity, at work or at home, whether you get paid or not.

**Circle one**

**10.** Level of activity that best describes your usual non-recreational activity.

**Vigorous or strenuous activity:** ..... 1  
 (involves heavy lifting, digging, handling heavy tools or equipment, or any other activity causing you to work up a sweat or get out of breath)

**Moderate activity:** ..... 2  
 (requires moderate-paced walking on a flat surface, heavy one-arm work or moderate two-arm work, such as picking, sweeping, lifting light objects, or heavy housework)

**Light activity:** ..... 3  
 (involves sitting down with one hand movement, moderate one-arm work or light two-arm work, with occasional walking or standing such as office work, filing or sorting, or light or moderate housework)

**11.** On average, how many hours per day do you spend at this level of activity?

\_\_\_\_\_ Hours

**12.** On average, how many hours per day do you spend sitting down?

\_\_\_\_\_ Hours



Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

#### D. Recreational Activity (Non-Work Related)

The following questions are about the recreational activities you spend at least 15 minutes doing each week. You should count walking or biking to work and any other activities outside of work. Next to each activity that you participate in, write in how many total hours or minutes you do that activity on an average week. Mark the places for hours and minutes only for the activities you participate in.

For each activity that you engage in for at least 15 minutes per week, please circle the activity and write the number of hours or minutes that you do that activity per week.	
13. Swimming	Hours: _____ Minutes: _____
14. Jogging	Hours: _____ Minutes: _____
15. Running	Hours: _____ Minutes: _____
16. Brisk walking	Hours: _____ Minutes: _____
17. Bicycling on hills	Hours: _____ Minutes: _____
18. Bicycling on flat surfaces	Hours: _____ Minutes: _____
19. Hiking or climbing	Hours: _____ Minutes: _____
20. Yard work / Gardening	Hours: _____ Minutes: _____
21. Aerobics	Hours: _____ Minutes: _____
22. Dancing	Hours: _____ Minutes: _____
23. Calisthenics (exercises without machines)	Hours: _____ Minutes: _____
24. Weight lifting, using weight machines, or heavy lifting	Hours: _____ Minutes: _____
25. Treadmill or Stairmaster	Hours: _____ Minutes: _____
26. Chopping wood	Hours: _____ Minutes: _____

Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

For each activity that you engage in for at least 15 minutes per week, please circle the activity and write the number of hours or minutes that you do that activity per week.

27. Painting / Woodworking	Hours: _____ Minutes: _____
28. Housecleaning	Hours: _____ Minutes: _____
29. Golfing	Hours: _____ Minutes: _____
30. Singles tennis, racquetball, or other court sports	Hours: _____ Minutes: _____
31. Doubles tennis, racquetball or other court sports	Hours: _____ Minutes: _____
32. Basketball	Hours: _____ Minutes: _____
33. Football, soccer, or other field sports	Hours: _____ Minutes: _____
34. Skiing	Hours: _____ Minutes: _____
35. Bowling	Hours: _____ Minutes: _____
<b>Others</b> (write in the name of activity):	
36. Name of activity _____	Hours: _____ Minutes: _____
37. Name of activity _____	Hours: _____ Minutes: _____
38. Name of activity _____	Hours: _____ Minutes: _____

39. Today's date:

\_\_\_\_\_

**Thank you for completing this survey. Please bring this completed survey with you to your scheduled PIVENS study visit.**



11. Hip (*standing, at fullest part of the hips; repeat hip measurements until you have two measurements within 4 in (10.2 cm) of each other*)

a. Circumference, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

b. Circumference, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

c. Units:

Inches ( 1 )  
Centimeters ( 2 )

12. Triceps (*right arm, with elbow extended and arm relaxed; repeat skin fold measurements until you have two within 10 mm of each other; repeat mid-upper arm circumference until you have two within 1.5 in (3.8 cm) of each other*)

a. Skin fold, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
mm

b. Skin fold, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
mm

c. Mid-upper arm circumference, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

d. Mid-upper arm circumference, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

e. Units for arm circumference:

Inches ( 1 )  
Centimeters ( 2 )

13. Temperature (*oral*)

a. Degrees: \_\_\_\_\_ ● \_\_\_\_\_

b. Scale:

Fahrenheit ( 1 )  
Centigrade ( 2 )

14. Blood pressure

a. Systolic: \_\_\_\_\_ mmHg

b. Diastolic: \_\_\_\_\_ mmHg

15. Resting radial pulse: \_\_\_\_\_ beats/minute

16. Respiratory rate: \_\_\_\_\_ breaths/minute

**C. Examination findings**

17. Skin:

Normal ( 1 )  
Abnormal ( 2 )

20.

18. Acanthosis nigricans (*check only one*):

Absent (*not detectable on close inspection*) ( 0 )

Present (*clearly present on close inspection, not visible to casual observer, extent not measurable*) ( 1 )

Mild (*limited to base of skull, not extending to lateral margins of neck, < 3 inches in breadth*) ( 2 )

Moderate (*extending to lateral margins of neck, 3-6 inches in breadth, not visible from patient's front*) ( 3 )

Severe (*extending anteriorly, > 6 inches in breadth, visible from front*) ( 4 )

19. Other skin abnormality (*check all that apply*)

a. Jaundice: ( 1 )

b. Palmar erythema: ( 1 )

c. Spider angiomata: ( 1 )

d. Other (*specify*): ( 1 )

e. None of the above: ( 1 )

20. Head, eyes, ears, nose, throat:

Normal ( 1 )

Abnormal ( 2 )

22.

21. Abnormality of the head, eyes, nose, throat (*check all that apply*)

a. Jaundice: ( 1 )

b. Other (*specify*): ( 1 )

\_\_\_\_\_ specify

**22. Neck:**

Normal ( 1 )

Abnormal 23. ( 2 )

\_\_\_\_\_ specify abnormality

**23. Lymphatic:**

Normal ( 1 )

Abnormal 24. ( 2 )

\_\_\_\_\_ specify abnormality

**24. Chest and lungs:**

Normal ( 1 )

Abnormal 25. ( 2 )

\_\_\_\_\_ specify abnormality

**25. Heart:**

Normal ( 1 )

Abnormal 26. ( 2 )

\_\_\_\_\_ specify abnormality

**26. Abdomen:**

Normal ( 1 )

Abnormal 28. ( 2 )

**27. Abdomen abnormality  
(check all that apply)**

a. Ascites: ( 1 )

b. Obese: ( 1 )

c. Other (specify): ( 1 )

\_\_\_\_\_ specify abnormality

**28. Liver and spleen:**

Normal ( 1 )

Abnormal 30. ( 2 )

**29. Abnormality of liver or spleen (check all that apply)**

a. Hepatomegaly: ( 1 )  
(if checked, span from right midclavicular line):

\_\_\_\_\_ cm

b. Splenomegaly: ( 1 )

c. Other (specify): ( 1 )

\_\_\_\_\_ specify abnormality

**30. Extremities:**

Not performed ( 0 )

Normal 32. ( 1 )

Abnormal 32. ( 2 )

**31. Abnormality of the extremities  
(check all that apply)**

a. Contractures: ( 1 )

b. Muscle wasting: ( 1 )

c. Palmar erythema: ( 1 )

d. Pedal edema: ( 1 )

e. Other (specify): ( 1 )

\_\_\_\_\_ specify abnormality

**32. Genitourinary/pelvis:**

Not performed ( 0 )

Normal 33. ( 1 )

Abnormal 33. ( 2 )

\_\_\_\_\_ specify abnormality

**33. Nervous system:**

- Not performed ( 0 )
- Normal  ( 1 )
- Abnormal  ( 2 )

**34. Abnormality of the nervous system**  
*(check all that apply)*

- a. Mental status abnormal: ( 1 )
- b. Asterixis: ( 1 )
- c. Other *(specify)*: ( 1 )

\_\_\_\_\_ specify abnormality

**D. Administrative information**

**35. Study Physician PIN:** \_\_\_\_\_

**36. Study Physician signature:**  
\_\_\_\_\_

**37. Clinical Coordinator PIN:** \_\_\_\_\_

**38. Clinical Coordinator signature:**  
\_\_\_\_\_

**39. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**12. Temperature (oral)**

a. Degrees: \_\_\_\_\_ ° \_\_\_\_\_

b. Scale:

Fahrenheit: (  )

Centigrade: (  )

**13. Blood pressure**

a. Systolic: \_\_\_\_\_ mmHg

b. Diastolic: \_\_\_\_\_ mmHg

**14. Resting radial pulse:** \_\_\_\_\_ beats/minute

**15. Respiratory rate:** \_\_\_\_\_ breaths/minute

**C. Liver signs**

**16. Liver and spleen:**

Normal (  )

Abnormal (  ) **18.**

**17. Abnormality (check all that apply)**

a. Ascites: (  )

b. Asterixis: (  )

c. Contractures: (  )

d. Hepatomegaly: (  )

*If Yes, span from right midclavicular line:*

\_\_\_\_\_ cm

e. Jaundice: (  )

f. Muscle wasting: (  )

g. Palmar erythema: (  )

h. Pedal edema: (  )

i. Spider angiomata: (  )

j. Splenomegaly: (  )

k. Other, (specify): (  )

\_\_\_\_\_ specify abnormality

**D. Administrative information**

**18. Study Physician ID:** \_\_\_\_\_

**19. Study Physician signature:**  
\_\_\_\_\_

**20. Clinical Coordinator ID:** \_\_\_\_\_

**21. Clinical Coordinator signature:**  
\_\_\_\_\_

**22. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**Purpose:** To obtain the patient's views of his/her health.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered, but Clinical Coordinator must be available at visits to answer questions and review the completed form.

**Respondent:** Patient, without help from spouse or family.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to each of pages 2-7.

**Screening:** The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-7. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-7 and the Clinical Coordinator should complete section B below. **Followup:** Pages 2-7 should be mailed to the patient 2 weeks prior to the scheduled study visit with instructions to complete the form at home and to bring the completed form to the next study visit. When the patient returns for the visit, the Clinical Coordinator should review the form for completeness and obtain responses for missing items during the visit. If the patient did not bring a completed form to the visit, the patient should complete the form at the visit. Page 1 should be attached to pages 2-7 and the Clinical Coordinator should complete section B below. Fill in item 4 with the date the patient wrote in item 22. If the patient did not write in a date, use the date of the study visit for the visit date.

#### A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*): \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:   q     f     1  

7. Study: PIVENS   2  

#### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. Clinical Coordinator PIN: \_\_\_\_\_

9. Clinical Coordinator signature: \_\_\_\_\_

10. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

<i>Affix label here</i>	
Patient ID:	_____
Pt code:	_____

## QF - MOS 36-Item Short-Form Health Survey

**Instructions:** This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities.

*(Items 1-10 are reserved for clinic use.)*

**11.** In general, would you say your health is:

- |                 | <b>Circle One</b> |
|-----------------|-------------------|
| Excellent ..... | 1                 |
| Very good ..... | 2                 |
| Good .....      | 3                 |
| Fair .....      | 4                 |
| Poor .....      | 5                 |

**12.** Compared to one year ago, how would you rate your health in general now?

- |   |   |
|---|---|
| Much better now than one year ago .....     | 1 |
| Somewhat better now than one year ago ..... | 2 |
| About the same .....                        | 3 |
| Somewhat worse now than one year ago .....  | 4 |
| Much worse now than one year ago .....      | 5 |

*Affix label here*

Patient ID: \_\_\_\_\_

Pt code: \_\_\_\_\_

13. The following items are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Activities	Circle one		
	Yes, limited a lot	Yes, limited a little	No, not limited at all
a. Vigorous activities, such as running, lifting heavy objects, participating in strenuous sports:	1	2	3
b. Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf:	1	2	3
c. Lifting or carrying groceries:	1	2	3
d. Climbing several flights of stairs:	1	2	3
e. Climbing one flight of stairs:	1	2	3
f. Bending, kneeling, or stooping:	1	2	3
g. Walking more than a mile:	1	2	3
h. Walking several blocks:	1	2	3
i. Walking one block:	1	2	3
j. Bathing or dressing yourself:	1	2	3

*Affix label here*

Patient ID: \_\_\_\_\_

Pt code: \_\_\_\_\_

14. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

	Circle one	
	Yes	No
a. Cut down on the amount of time you spent on work or other activities:	1	2
b. Accomplished less than you would like:	1	2
c. Were limited in the kind of work or other activities:	1	2
d. Had difficulty performing the work or activities (for example, it took extra effort):	1	2

15. During the past 4 weeks, have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

	Circle one	
	Yes	No
a. Cut down on the amount of time you spent on work or other activities:	1	2
b. Accomplished less than you would like:	1	2
c. Didn't do work or other activities as carefully as usual:	1	2

*Affix label here*

Patient ID:    \_\_\_\_\_

Pt code:        \_\_\_\_\_

**16.** During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

- Circle One**
- Not at all ..... 1
  - Slightly ..... 2
  - Moderately ..... 3
  - Quite a bit ..... 4
  - Extremely ..... 5

**17.** How much bodily pain have you had during the past 4 weeks?

- None ..... 1
- Very mild ..... 2
- Mild ..... 3
- Moderate ..... 4
- Severe ..... 5
- Very severe ..... 6

**18.** During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

- Not at all ..... 1
- A little bit ..... 2
- Moderately ..... 3
- Quite a bit ..... 4
- Extremely ..... 5

Affix label here

Patient ID: \_\_\_\_\_

Pt code: \_\_\_\_\_

19. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks:

	Circle one					
	All of the time	Most of the time	A good bit of the time	Some of the time	A little of the time	None of the time
a. Did you feel full of pep?	1	2	3	4	5	6
b. Have you been a very nervous person?	1	2	3	4	5	6
c. Have you felt so down in the dumps that nothing could cheer you up?	1	2	3	4	5	6
d. Have you felt calm and peaceful?	1	2	3	4	5	6
e. Did you have a lot of energy?	1	2	3	4	5	6
f. Have you felt downhearted and blue?	1	2	3	4	5	6
g. Did you feel worn out?	1	2	3	4	5	6
h. Have you been a happy person?	1	2	3	4	5	6
i. Did you feel tired?	1	2	3	4	5	6

20. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

- Circle One**
- All of the time ..... 1
- Most of the time ..... 2
- Some of the time ..... 3
- A little of the time ..... 4
- None of the time ..... 5

Affix label here

Patient ID: \_\_\_\_\_

Pt code: \_\_\_\_\_

21. How TRUE or FALSE is *each* of the following statements for you.

	Circle one				
	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
a. I seem to get sick a little easier than other people	1	2	3	4	5
b. I am as healthy as anybody I know	1	2	3	4	5
c. I expect my health to get worse	1	2	3	4	5
d. My health is excellent	1	2	3	4	5

22. Date completed:

\_\_\_\_\_

**Please bring this completed survey with you to your scheduled PIVENS study visit.**

## PIVENS

## RC - Rescreen in PIVENS

**Purpose:** To rescreen a patient who was previously found to be ineligible for PIVENS due to a temporary ineligibility. This form must be the first form completed and keyed for the patient for this screening cycle (the date in item 4 of this form will be the date that the 183-day screening window is reckoned from). The original RG form completed for the patient must remain in the data system. New screening phase tube and questionnaire labels will be available for printing upon keying this form.

**When:** Visit code s1.

**Administered by:** Clinical Coordinator.

**Respondent:** None.

**Instructions:** Complete this form for a patient who was previously found to be ineligible for PIVENS due to a temporary ineligibility and who now wants to rescreen for PIVENS. In general, the patient must complete all PIVENS screening data collection anew and all previously keyed PIVENS screening forms should be deleted from the data system except the RG and possibly the BC and CG forms. Update sections B, C, D, and G of the RG form and update the keyed record (you cannot delete the RG form). If blood was collected successfully for the Genetics Repository, a new sample does not need to be collected and the previously completed BC and CG forms may remain unchanged in the data system. Plasma and serum must be collected anew. If the same liver biopsy is being used to satisfy eligibility now and slides were sent to the DCC, additional slides do not need to be sent. The pathologist should rescore the biopsy and new SD, HF, and LT forms should be completed transcribing the slide numbers and liver tissue vial number as needed.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:            s 1 \_\_\_\_\_

6. Form & revision:            r c 1

7. Study:                                      PIVENS 2

**B. PIVENS participation**

8. Date in item 4 of original PIVENS RG form:  
 \_\_\_\_\_  
 day                      mon                      year

**C. Administrative information**

9. Clinical Coordinator PIN: \_\_\_\_\_

10. Clinical Coordinator signature:  
 \_\_\_\_\_

11. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year



## PIVENS

## RD – Study Drug Dispensing and Return

**Purpose:** To record dispensing and return of study drugs.

**When:** Visits rz, f002, f004, f008, f012, f016, f024, f032, f040, f048, f056, f064, f072, f080, f088, and f096. Use visit code “n” if drugs are dispensed or returned at a time other than a regular study visit or if a second form is needed at a visit to document returned study drugs.

**Administered by:** Pharmacist or Clinical Coordinator, reviewed by Study Physician.

**Instructions:** This form documents dispensing of study drug, return of unused study drug, and return of empty study drug bottles. This form is required at visit rz and every scheduled followup visit thereafter except visit f120. It may be used at unscheduled visits as needed (use visit code n).

Study drugs are dispensed in the quantities specified below:

Visit	No. of P series bottles	No. of E series bottles	Comment
rz	1	1	4 week supply
f004	1	1	4 week supply
f008	1	1	8 week supply
f016	1	1	8 week supply
f024	1	1	8 week supply
f032	2	2	16 week supply
f048	2	2	16 week supply
f064	1	1	8 week supply
f072	1	1	8 week supply
f080	2	2	16 week supply

The patient should be queried about return of empty study drug bottles at all study visits. Unused study drug that has not expired should be returned to the patient for continued use. For expired study drugs that are returned, the pharmacist or the clinical coordinator should count and record the remaining number of tablets or softgels in study drug bottles. This form allows recording of the return of up to twelve bottles (six P series and six E series). If more than six bottles of either series are returned at a time, complete a second form (using visit code “n”) to record the information for the remaining bottles.

## A. Center, patient, and visit identification

- Center ID: \_\_\_\_\_
- Patient ID: \_\_\_\_\_
- Patient code: \_\_\_\_\_
- Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year
- Visit code: \_\_\_\_\_
- Form & revision:                      **r**    **d**    **2**
- Study:    PIVENS 2

## B. Study drug dispensing

- Is this a second form for returning additional drug bottles at this visit:    Yes                      No  
 (    1    )                      (    2    )  
18. ←
- Will study drug be dispensed today:  
 Yes                      No  
 (    1    )                      (    2    )  
11. ←
- Reason for not dispensing study drug  
 (check all that apply)
  - Not a scheduled study drug dispensing visit:                      (    1    )
  - Study physician-directed treatment interruption/termination:                      (    1    )
  - Unwillingness of the participant to take study drugs:                      (    1    )
  - Other (specify):                      (    1    )

specify

18. ←

11. Number of P series bottles issued: \_\_\_\_\_  
(1-2)

14. Number of E series bottles issued: \_\_\_\_\_  
(1-2)

**Bottle tear-off label**

**Bottle tear-off label**

12.

*Affix label here*

15.

*Affix label here*

13.

*Affix label here*

16.

*Affix label here*

17. How were the study drugs dispensed to the patient (*check only one*) :

- In person ( 1 )
- Mail ( 2 )
- Other (*specify*) ( 3 )

\_\_\_\_\_ specify

**C. Study drug return**

18. Were any P series bottles returned at this visit:

Yes ( ) No ( )

26. ←

19. Number of P series bottles returned (if more than 6 bottles returned, complete a second RD form):

(1-6)

26. Were any E series bottles returned at this visit:

Yes ( ) No ( )

34. ←

27. Number of E series bottles returned (if more than 6 bottles returned, complete a second RD form):

(1-6)

	a. Bottle No.	b. Number of tablets returned
20.	P _____	_____ (00-50)
21.	P _____	_____ (00-50)
22.	P _____	_____ (00-50)
23.	P _____	_____ (00-50)
24.	P _____	_____ (00-50)
25.	P _____	_____ (00-50)

	a. Bottle No.	b. Number of softgels returned
28.	E _____	_____ (00-50)
29.	E _____	_____ (00-50)
30.	E _____	_____ (00-50)
31.	E _____	_____ (00-50)
32.	E _____	_____ (00-50)
33.	E _____	_____ (00-50)

**D. Remaining bottles**

34. Are any additional bottles being returned:

Yes ( \* ) No ( )

*\*If yes, complete a second RD form using visit code "n."*

**E. Administrative information**

35. Clinical Coordinator PIN: \_\_\_\_\_

36. Clinical Coordinator signature:

\_\_\_\_\_

37. Date form reviewed:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**16.** Racial category (*show the patient Flash Card #2 and ask the patient to pick the category or categories that describes him/her best; check all that apply*)

- a. American Indian or Alaska Native: (  )
- b. Asian: (  )
- c. Black, African American, Negro, or Haitian: (  )
- d. Native Hawaiian or other Pacific Islander: (  )
- e. White: (  )
- f. Patient refused: (  )

**17.** In what country was the patient born (*check only one*):

- Continental US (includes Alaska) or Hawaii (  )
- Other, (*specify*): (  )

\_\_\_\_\_ specify

**18.** Highest educational level achieved by patient (*show the patient Flash Card #3 and ask the patient to pick the category that describes him/her best; check only one*):

- Never attended school (  )
- Kindergarten, pre kindergarten, or younger (  )
- Grades 1 to 5 (  )
- Grades 6-8 (  )
- Grades 9-11 (  )
- Completed high school (  )
- Some college or post high school education or training (  )
- Bachelor's degree or higher (  )

**19.** Is the patient currently employed:

Yes (  )      No (  )

**22.** \_\_\_\_\_

**20.** What is the patient's current occupation:

\_\_\_\_\_ specify occupation

**21.** About how many hours does the patient work each week: \_\_\_\_\_ # hours

**22.** Which of the following categories best characterizes the patient's occupational history (*show patient Flash Card #4 and ask the patient to pick the category that describes him/her best; check only one*):

- Never employed (  )
- Laborer (  )
- Clerical (  )
- Professional (  )
- Homemaker (  )
- Other, (*specify*): (  )

\_\_\_\_\_ specify

**23.** Marital status of the patient (*show patient Flash Card #5 and ask the patient to pick the category that describes him/her best; check only one*):

- Single, never married (  )
- Married or living in marriage-like relationship (  )
- Separated, divorced, or annulled (  )
- Widowed (  )

**24.** Combined annual income before taxes of all members of patient's household (*show patient Flash Card #6 and ask the patient to pick the category that describes his/her combined household income best; check only one*):

- Less than \$15,000 (  )
- \$15,000 - \$29,999 (  )
- \$30,000 - \$49,999 (  )
- \$50,000 or more (  )

**D. Source of patient**

*(Clinical Coordinator should pick the best description of the source of patient)*

25. Source of patient *(check only one)*:

- Bariatric surgery clinic ( 01 )
- Current patient of NASH CRN investigator: ( 02 )
- Diabetes clinic ( 03 )
- GI/liver clinic ( 04 )
- HMO-based ( 05 )
- Internal medicine clinic ( 06 )
- Lipid disorders clinic ( 07 )
- Liver transplant clinic ( 08 )
- Obesity clinic ( 09 )
- Primary care clinic ( 10 )
- Self referral ( 11 )
- Other, *(specify)*: ( 12 )

\_\_\_\_\_ specify

**E. Previous registration in a NASH CRN study**

26. Has the patient previously been registered in a NASH CRN study:

- Yes ( 1 )
  - No ( 2 )
31. \_\_\_\_\_

27. In which NASH CRN studies has the patient previously been registered *(check all that apply)*

- a. NAFLD Database: ( 1 )
- b. Other, *(specify)*: ( 1 )

\_\_\_\_\_ specify

28. ID Number previously assigned to patient *(record patient ID in item 2)*:

\_\_\_\_\_

29. Code previously assigned to patient *(record patient code in item 3)*:

\_\_\_\_\_

30. Has it been at least 8 weeks since the patient was registered or enrolled in a NASH CRN study *(check only one)*:

- Registered, but not enrolled ( \* 0 )
- Yes 32. \_\_\_\_\_ ( 1 )
- No 32. \_\_\_\_\_ ( \* 2 )
- 32. \_\_\_\_\_

*\* Use physician discretion if less than 8 weeks since previous registration or enrollment.*

**F. ID assignment**

*(If a STOP condition was checked in section B, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.)*

31. Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC	####, zzz
------	-----------

**G. Administrative information**

32. Clinical Coordinator PIN: \_\_\_\_\_

33. Clinical Coordinator signature:  
\_\_\_\_\_

34. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



12. Were any proscribed medications (antiNASH medications or supplements, antidiabetic medications, antiobesity medications, or nonstable dose of fibrates or statins) used within 3 months of the date of the biopsy:

Yes ( \* 1 )      No ( + 2 )  
 ( \* 1 )       ( + 2 )

\* Biopsy must be done when the patient has been free of proscribed medications (antiNASH medications or supplements, antidiabetic medications, and antiobesity medications) for at least 3 months prior to the date of the biopsy.

+ Since this is the screening biopsy, the local Study Pathologist must complete the Liver Biopsy Histology Findings (HF) form for this biopsy.

**D. Biopsy specimens and stained slides at the clinical center**

13. Was a sample of liver tissue obtained for banking:

Yes ( \* 1 )      No ( 2 )  
 \* If Yes, complete the Liver Tissue Banking (LT) form

14. What stained slides from the biopsy are available at the clinical center (check all that apply)

- a. H & E stain: ( 1 )
- b. Masson's trichrome stain: ( 1 )
- c. Iron stain: ( 1 )

**E. Unstained slides to be sent to the DCC**

15. Are unstained slides available for sending to the DCC:

Yes ( 1 )      No ( 2 )  
 ( 1 )       ( 2 )

16. How many unstained slides will be sent to the DCC: \_\_\_\_\_

17. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60):

- a. Slide sequence number \_\_\_\_\_ (01-60)
- b. Slide sequence number \_\_\_\_\_ (01-60)
- c. Slide sequence number \_\_\_\_\_ (01-60)
- d. Slide sequence number \_\_\_\_\_ (01-60)
- e. Slide sequence number \_\_\_\_\_ (01-60)
- f. Slide sequence number \_\_\_\_\_ (01-60)
- g. Slide sequence number \_\_\_\_\_ (01-60)
- h. Slide sequence number \_\_\_\_\_ (01-60)
- i. Slide sequence number \_\_\_\_\_ (01-60)
- j. Slide sequence number \_\_\_\_\_ (01-60)

**F. Stained slides to be sent to the DCC**

(The institution's stained slides must be sent to the DCC only if fewer than 2 unstained slides will be sent to the DCC)

18. Is the institution's H & E stained slide to be sent to the DCC

Yes ( 1 )      No ( 2 )  
 ( 1 )       ( 2 )

19. Slide sequence number for this slide (from the NASH CRN label on the slide - use removable overlabs, sequence numbers 81 - 90):

\_\_\_\_\_ (81-90)

20. Is the H & E stained slide to be returned to the clinical center:

Yes ( 1 )      No ( 2 )  
 ( 1 )       ( 2 )

21. Is the institution's Masson's trichrome stained slide to be sent to the DCC:

Yes ( 1 )      No ( 2 )  
 ( 1 )       ( 2 )

22. Slide sequence number for slide (from the NASH CRN label on the slide - use removable overlabs, sequence numbers 81 - 90):

\_\_\_\_\_ (81-90)



23. Is the Masson's trichrome slide to be returned to the clinical center:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

24. Is the institution's iron stained slide to be sent to the DCC:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )  
 27. \_\_\_\_\_

25. Slide sequence number for the iron stained slide (from the NASH CRN label on the slide - use removable overlabs, sequence numbers 81 - 90):  
 \_\_\_\_\_  
 (81-90)

26. Is the iron stained slide to be returned to the clinical center:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

27. Is at least one of the stained slides to be returned to the clinical center (i.e., either item 20 = yes, item 23 = yes, or item 26 = yes):  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )  
 30. \_\_\_\_\_

28. When do the stained slides need to be returned to the clinical center (check only one):  
 Immediately after central review ( 1 )  
 At the end of the NASH CRN funding period ( 2 )

29. Which pathology department did these slides come from:  
 NASH CRN clinical center's pathology department ( 1 )

Other, (specify): 30. \_\_\_\_\_ ( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the PIVENS trial record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**G. Administrative information**

30. Clinical Coordinator PIN: \_\_\_\_\_

31. Clinical Coordinator signature:  
 \_\_\_\_\_

32. Date form reviewed:  
 \_\_\_\_\_  
 day mon year

## PIVENS

## Transfer Notification

**Purpose:** To record a transfer from one center to another center.

**When:** Upon transferring to the enrolling center and prior to the first visit at the adopting center.

**By whom:** Clinical coordinator of each center (enrolling center: sections A-C, adopting center: sections D- E).

**Instruction: For enrolling center:** When patient notifies enrolling center of upcoming transfer, the enrolling clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recently completed HI, LR, RD, and PE/PF forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0932). The DCC will key the form.

**A. Enrolling center and patient identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of notification of intent to transfer:  
 \_\_\_\_\_  
 day mon year
5. Visit code: n \_\_\_\_\_
6. Form & revision: t n 1
7. Study: PIVENS 2

**B. Last followup visit information**

8. Date of last followup visit:  
 \_\_\_\_\_  
 day mon year
9. Visit ID code of last completed followup visit:  
f \_\_\_\_\_
10. Have cryovial and slide labels been sent to the adopting center:  
 Yes ( 1 ) No ( \* 2 )

*\* Send the cryovial and slide labels to the adopting center.*

**C. Enrolling center administrative information**

11. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
12. Clinical coordinator ID: \_\_\_\_\_
13. Clinical coordinator signature:  
 \_\_\_\_\_

**D. Adopting center, patient and visit identification**

14. Adopting center ID: \_\_\_\_\_
15. Patient ID (*must be same as in Section A*):  
 \_\_\_\_\_
16. Patient code: (*must be same as in Section A*):  
 \_\_\_\_\_
17. Expected date of first followup visit at adopting center:  
 \_\_\_\_\_  
 day mon year
18. Visit ID code for expected first followup visit at adopting center:  
f \_\_\_\_\_

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.*

**E. Adopting center administrative information**

19. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
20. Clinical coordinator ID: \_\_\_\_\_
21. Clinical coordinator signature:  
 \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*

# NASH CRN TONIC

## TONIC Form Abbreviations and Case Report Form Names

---

Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
BC	Blood Collection for DNA
BD	Food Questionnaire Documentation
BG	Baseline History
BP	Blood Processing for Plasma and Serum
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
DR	Death Report
DX	DEXA Scan for Body Fat
EC	Eligibility Checklist
FI	Family Member Identification
HI	Follow-up Medical History
IE	Interim Event Report
LP	Symptoms of Liver Disease (Children)
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LU	Laboratory Results - Tests Required at Visit s2
MA	Modifiable Activity Questionnaire
MR	MRI Report
MV	Missed or Incomplete Visit
PE	Physical Examination
PF	Focused Physical Examination
PQ	Pediatric QOL: Parent Report for Teens (Age 13-17)
PR	Pediatric QOL: Parent Report for Children (Age 8-12)
PW	Pediatric QOL: Child Report (Age 8-12)
PY	Pediatric QOL: Teen Report (Age 13-17)
RC	Rescreen Form
RD	Study Drug Dispensing and Return
RG	Registration
SD	Liver Biopsy Materials Documentation

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## TONIC

## AD – Alcohol Use Disorders Identification Test (AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Visit s1.

**Administered by:** Self-administered (*age 13 or older*), interviewer administered (*age 8-12*). Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient, age 8 or older. Patients age 13 or older should complete the form without help from family. Clinical Coordinator/parent can assist patients age 8-12.

**Instructions:** Flash Card #11, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. If the form is self-administered by the patient, the patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator then should complete section B below.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year
5. Visit code:   s     1   \_\_\_\_\_
6. Form & revision:   a     d     1
7. Study: TONIC   3

### B. Administrative information

(*To be completed by Clinical Coordinator after survey is completed.*)

8. How was the questionnaire completed:  
 Self-administered by patient ( )  
10. ←  Interview in English ( )  
 Interview with translator ( )
9. Who was the respondent (*check all that apply*):  
 a. Patient: ( )  
 b. Patient's mother or female guardian: ( )  
 c. Patient's father or male guardian: ( )  
 d. Other (*specify*): ( )

\_\_\_\_\_ specify

10. Clinical Coordinator  
 a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-11 are for clinical center use only*).

12. How often do you have a drink containing alcohol?

Never	Monthly or less	Two to four times a month	Two to three times a week	Four or more times a week
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

↳ **22.**

13. How many drinks containing alcohol do you have on a typical day when you are drinking?

1 or 2	3 or 4	5 or 6	7 to 9	10 or more
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

14. How often do you have six or more drinks on one occasion?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

15. How often during the last year have you found that you were not able to stop drinking once you had started?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

16. How often during the last year have you failed to do what was normally expected from you because of drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

17. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

18. How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

19. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

20. Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

21. Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

22. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**



## TONIC

## BC - Blood Collection for DNA

**Purpose:** Document the collection of whole blood for shipment to NIDDK Genetics Repository at Rutgers University for DNA extraction. Complete this form only if the patient signed the consent for genetic research.

**When:** Visit s2, rz, and as needed during followup. You can complete only one BC form prior to randomization. If a redraw of blood is necessary prior to randomization, revise the existing BC form to reflect the most recent blood draw for DNA banking. If redraw is necessary on the day of randomization, complete the BC form with visit code rz but hold the form for keying until after the patient has been randomized (you will not be able to key the form until after the patient has been randomized). If redraw is done after randomization or if the initial draw for DNA is done after randomization (eg, a patient who previously refused consent changes their mind to allow DNA banking), use the visit code for the followup visit whose time window is open. If redraw is done so soon after randomization that a followup visit window is not open, use visit code n.

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection of whole blood.

**Instructions:** (1) Fill two 10 mL EDTA vacutainer tubes with whole blood. (2) Pack and ship the whole blood in the EDTA tubes to the NIDDK Genetics Repository at Rutgers University on the same day blood is collected. Ship at ambient room temperature. Ship whole blood in the specimen shippers supplied by the NIDDK Genetics Repository.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year


5. Visit code: \_\_\_\_\_

6. Form & revision:  b   c   1

7. Study: TONIC  3

## B. Check on consent

8. Did the patient/parent consent/assent to blood draw for DNA extraction:

Yes ( 1 )      No ( \* 2 )  


\* You cannot proceed until you get consent.

9. Did the patient previously provide blood for DNA banking in the NAFLD Database:

Yes ( 1 )      No ( 2 )  
 15. \_\_\_\_\_

## C. Specimen for Genetics Repository

Attach ID labels to two 10mL EDTA tubes and fill each with whole blood; invert each tube gently 6 times to mix blood with additives; keep tubes at room temperature until the same day shipment to the NIDDK Genetics Repository.

10. Was blood collected for the NIDDK Genetics Repository:

Yes ( 1 )

No, (specify): 11. \_\_\_\_\_ ( 2 )

\_\_\_\_\_ specify

11. Date and time of blood draw

a. Date: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

b. Time: \_\_\_\_\_ : \_\_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

12. Number of 10 mL EDTA tubes: \_\_\_\_\_

13. Form copy of tube labels:

TONIC Form BC
Pt: ccc- 9999, xyz
Gender
Age, yrs.: XX

14. Phlebotomist: \_\_\_\_\_  
 \_\_\_\_\_  
 print name

**D. Administrative information**

15. Clinical Coordinator PIN: \_\_\_\_\_

16. Clinical Coordinator signature:  
\_\_\_\_\_

17. Date form reviewed:  
\_\_\_\_-\_\_\_\_-\_\_\_\_  
day mon year

# TONIC

## BD - Food Questionnaire Documentation

**Purpose:** To document completion of the age appropriate food questionnaire.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form after the patient has completed the Block Brief Food Questionnaire. The Block Brief Food Questionnaire booklets should be sent to the DCC once a month with the completed TB form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed (*date food questionnaire booklet is completed*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision:   b     d     1  

7. Study: TONIC   3  

### B. Administration of food questionnaire

8. How was the Brief Food Questionnaire completed:

Self administered by patient/parent (   1   )

Interview in English (   2   )

Interview with translator (   3   )

9. Who was the respondent (*check all that apply*)

a. Patient: (   1   )

b. Patient's mother or female guardian: (   1   )

c. Patient's father or male guardian: (   1   )

d. Other (*specify*): (   1   )

\_\_\_\_\_ specify

10. Form copy of label applied to food questionnaire:

```

|-----|
|  TONIC Form BD  |
| Pt: 9999,xyz    |
| Visit: vvvv     |
| Date: _____ |
|-----|

```

### C. Administrative information

11. Clinical Coordinator PIN: \_\_\_\_\_

12. Clinical Coordinator signature:

\_\_\_\_\_

13. Date form reviewed:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



- 14.** Do any of the patient's first degree relatives (parent, brother, sister) have atrophy of body fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

- 15.** Do any of the patient's first degree relatives (parent, brother, sister) have a problem with cholesterol or blood fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

**C. NAFLD history**

- 16.** Date patient was first diagnosed with nonalcoholic fatty liver disease (NAFLD):
- \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

- 17.** What prompted the evaluation for NAFLD (*check all that apply*)
- a.** Symptoms for liver disease: ( 1 )  
**b.** Result of being evaluated for another illness: ( 1 )  
**c.** During a routine or insurance physical examination: ( 1 )  
**d.** Blood donation: ( 1 )  
**e.** Other (*specify*): ( 1 )

\_\_\_\_\_ specify

- 18.** What procedures/tests supported this first diagnosis (*check all that apply*)
- a.** Liver biopsy: ( 1 )  
**b.** Imaging studies (*Ultrasound, CT, MRI*): ( 1 )  
**c.** Elevated aminotransferases: ( 1 )  
**d.** Other (*specify*): ( 1 )

\_\_\_\_\_ specify

**D. Weight history**

- 19.** What was the patient's birthweight:
- \_\_\_\_\_ - \_\_\_\_\_  
 lbs oz

- 20.** What is the patient's current weight (*ask the patient for his/her weight*):
- \_\_\_\_\_ lbs

- 21.** What is the most the patient has ever weighed:
- \_\_\_\_\_ lbs

- 22.** At what age did the patient weigh the most:
- \_\_\_\_\_ age in years

**E. Tobacco cigarette smoking history**

(*interview with patient; not by chart review*)

- 23.** Have you ever smoked tobacco cigarettes:
- Never ( 1 )  
 In the past but not anymore ( 2 )  
 Currently smokes cigarettes ( 3 )

**28.** \_\_\_\_\_

- 24.** Did you smoke cigarettes regularly (*"No" means less than 20 packs of cigarettes in a lifetime or less than 1 cigarette a day for one year*):
- ( Yes ) ( No )  
 ( 1 ) ( 2 )

**28.** \_\_\_\_\_

- 25.** How old were you when you first started regular cigarette smoking:
- \_\_\_\_\_ years

- 26.** How old were you when you (last) stopped smoking cigarettes (*code as "n" if the patient didn't stop smoking*):
- \_\_\_\_\_ years

- 27.** On the average of the entire time you smoked cigarettes, how many cigarettes did you smoke per day:
- \_\_\_\_\_ cigarettes/day

**F. Menstrual history**

28. Is the patient female:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 31.

29. Menarche history

a. Has menarche occurred:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 31.

b. What was the patient's age at menarche:

\_\_\_\_\_  
 age in years

30. Characterize the menstrual history in the past year (check only one):

Regular periods ( 1 )  
 Irregular periods ( 2 )  
 Rare periods ( 3 )  
 No periods ( 4 )

**G. Medical history** (  means Caution; condition is exclusionary if study physician agrees with diagnosis )

31. Has the patient ever been diagnosed with or treated for any of the following (check all that apply; source of information can be interview and/or chart review)

- a. Diabetes type 1:  (  )
- b. Diabetes type 2:  (  )
- c. Gestational diabetes (diabetes of pregnancy): (  )
- d. Hepatitis B:  (  )
- e. Hepatitis C:  (  )
- f. Autoimmune hepatitis:  (  )
- g. Autoimmune cholestatic liver disorder (PBC or PSC):  (  )
- h. Wilson's disease:  (  )
- i. Alpha-1-antitrypsin (A1AT) deficiency:  (  )
- j. Hemochromatosis or iron overload:  (  )
- k. Drug induced liver disease:  (  )
- l. Gilbert's syndrome: (  )
- m. Esophageal or gastric varices on endoscopy:  (  )
- n. Bleeding from varices:  (  )

- o.** Other gastrointestinal bleeding: (  )
  - p.** Biliary diversion: (  )  
 C
  - q.** Metabolic acidosis: (  )  
 C
  - r.** Ascites: (  )  
 C
  - s.** Edema: (  )
  - t.** Hepatic encephalopathy: (  )  
 C
  - u.** Portal hypertension: (  )  
 C
  - v.** Hepatorenal syndrome: (  )  
 C
  - w.** Hepatopulmonary syndrome: (  )  
 C
  - x.** Short bowel syndrome: (  )  
 C
  - y.** Hemophilia (*bleeding disorder*): (  )  
 C
  - z.** Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: (  )
  - aa.** Endocrine disease (*hormonal abnormality*): (  )
  - ab.** Hepatocellular carcinoma: (  )  
 C
  - ac.** Other malignancy (*cancer*): (  )  
 C
  - ad.** Human immunodeficiency virus (HIV): (  )  
 C
  - ae.** Peripheral neuropathy: (  )
  - af.** Seizure disorder or epilepsy: (  )
  - ag.** Drug allergies: (  )
  - ah.** Hypothyroidism: (  )
  - ai.** Hypertension: (  )
  - aj.** Cerebrovascular disease: (  )
  - ak.** Dysbetalipoproteinemia: (  )  
 C
  - al.** Hyperlipidemia (*high cholesterol, high triglycerides*): (  )
  - am.** Pancreatitis: (  )
  - an.** Cholelithiasis: (  )  
 C
  - ao.** Coronary artery disease: (  )  
 C
  - ap.** Congestive heart failure: (  )  
 C
  - aq.** Elevated uric acid such as gout: (  )
  - ar.** Kidney disease: (  )  
 C
  - as.** Polycystic ovary syndrome: (  )
  - at.** Sleep apnea (*not breathing during sleep*): (  )
  - au.** Dermatologic disorders: (  )
  - av.** Myopathy: (  )
  - aw.** Myositis: (  )
  - ax.** Major depression: (  )
  - ay.** Schizophrenia: (  )
  - az.** Bipolar disorder: (  )
  - ba.** Obsessive compulsive disorder: (  )
  - bb.** Severe anxiety or personality disorder: (  )
  - bc.** Substance abuse: (  )  
 C
  - bd.** None of the above: (  )
- 32.** Has the patient ever had bariatric surgery for any of the following (*check all that apply*)
- a.** Stapling or banding of the stomach: (  )  
 C
  - b.** Jejunioileal (*or other intestinal*) bypass: (  )  
 C
  - c.** Biliopancreatic diversion: (  )  
 C
  - d.** Other GI or bariatric surgery (*specify*): (  )  
\_\_\_\_\_
  - e.** None of the above: (  )

33. Is the patient currently undergoing evaluation for bariatric surgery:

Yes ( 1 )      No ( 2 )  
 Yes     No

34. Has the patient received total parenteral nutrition (TPN) in the past 3 years:

Yes ( 1 )      No ( 2 )  
 Yes     No

35. Organ, limb, or bone marrow transplant

a. Has the patient ever received a liver transplant:

Yes ( 1 )      No ( 2 )  
 Yes     No

b. Has the patient ever received any other organ, limb, or bone marrow transplant:

Yes ( 1 )      No ( 2 )

**H. Drugs historically associated with NAFLD**

36. Has the patient used any tetracyclines, salicylates, or valproic acid in the past 2 years (check all that apply)

a. Acetylsalicylic acid (ASA): ( 1 )

b. Aspirin - 325 mg: ( 1 )

c. Demeclocycline (Declomycin): ( 1 )

d. Divalproex (Depakote): ( 1 )

e. Doxycycline (Monodox): ( 1 )

f. Minocycline (Dynacin, Minocin): ( 1 )

g. Oxytetracycline (Terramycin): ( 1 )

h. Tetracycline (Achromycin): ( 1 )

i. Valproate sodium (Depacon): ( 1 )

j. Valproic acid (Depakene): ( 1 )

k. Other known hepatotoxin (specify): ( 1 )

\_\_\_\_\_

l. None of the above: ( 1 )

37. Were any of the items in 36a-k checked:

Yes ( \* 1 )      No ( 2 )  
 Yes     No

*\*Caution: Use of any of these drugs for more than 2 consecutive weeks in the past 2 years is exclusionary.*

38. Has the patient taken any systemic corticosteroids in the past 2 years (check all that apply):

a. Betamethasone sodium (Celestone): ( 1 )

b. Cortisol: ( 1 )

c. Cortisone: ( 1 )

d. Dexamethasone (Decadron): ( 1 )

e. Hydrocortisone (Hydrocortone): ( 1 )

f. Methylprednisolone (Solu-Medrol): ( 1 )

g. Prednisolone (Prelone): ( 1 )

h. Prednisone: ( 1 )

i. Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): ( 1 )

j. Other, (specify): ( 1 )

\_\_\_\_\_

k. Other, (specify): ( 1 )

\_\_\_\_\_

l. None of the above: ( 1 )

39. Were any of the items 38a-k checked:

Yes ( \* 1 )      No ( 2 )  
 Yes     No

*\*Caution: Use of systemic glucocorticoids for more than 2 consecutive weeks in the past 2 years is exclusionary.*



**40.** Has the patient taken any anabolic steroids or tamoxifen in the past 2 years  
(check all that apply)

- a. Boldenone undecylenate (Equipose): (  )
- b. Fluoxymesterone (Android-F, Halotestin): (  )
- c. Methandrostenolone (Dianabol): (  )
- d. Methyltestosterone (Android): (  )
- e. Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
- f. Oxandrolone (Oxandrin): (  )
- g. Oxymetholone (Anadrol): (  )
- h. Stanzolol (Winstrol): (  )
- i. Tamoxifen (Nolvadex): (  )
- j. Testosterone (Depo-Testosterone): (  )
- k. Other, (specify): (  )

\_\_\_\_\_


**l.** Other, (specify): (  )

\_\_\_\_\_

**m.** None of the above: (  )

**41.** Were any of the items 40a-l checked:

(  <sup>Yes</sup> ) (  <sup>No</sup> )




*\*Caution: Use of anabolic steroids or tamoxifen for more than 2 consecutive weeks in the past 2 years is exclusionary.*

**I. Use of antidiabetic drugs**

**42.** Does the patient have a known intolerance to metformin:

(  <sup>Yes</sup> ) (  <sup>No</sup> )



**43.** Has the patient used any antidiabetic medications in the past 3 months  
(check all that apply):


- a. Acarbose (Precose): (  )
- b. Acetohexamide (Dymelor): (  )
- c. Chlorpropamide (Diabinese): (  )
- d. Glimepiride (Amaryl): (  )
- e. Glipizide (Glucotrol, Glucator XL): (  )
- f. Glyburide (Micronase, DiaBeta, Glynase): (  )
- g. Insulin: (  )
- h. Metformin (Glucophage, Glucophage XR): (  )
- i. Miglitol (Glycet): (  )
- j. Nateglinide (Starlix): (  )
- k. Pioglitazone (Actos): (  )
- l. Repaglinide (Prandin): (  )
- m. Rosiglitazone (Avandia): (  )
- n. Tolazamide (Tolinase): (  )
- o. Tolbutamide (Orinase): (  )
- p. Other, (specify): (  )

\_\_\_\_\_

**q.** None of the above: (  )

**44.** Were any of the items 43a-p checked:

(  <sup>Yes</sup> ) (  <sup>No</sup> )



*\*Caution: Use of antidiabetic drugs in the 3 months prior to randomization is exclusionary.*


**J. Use of antiNAFLD drugs and vitamins**

45. Has the patient taken any of these antiNAFLD drugs in the past 3 months (check all that apply)

- a. Betaine (Cystadone): (  )
- b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- c. Metformin: (  )
- d. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol): (  )
- e. S-Adenylmethionine (SAM-e): (  )
- f. Milk thistle: (  )
- g. Probiotics (any form): (  )
- h. Gemfibrozil (Gen-Fibro, Lopid): (  )
- i. Other (specify): (  )


\_\_\_\_\_ specify


j. None of the above: (  )

46. Were any of item 45a-h checked:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>  



*\*Caution: Use of antiNAFLD drugs in the 3 months prior to randomization is exclusionary.*

47. Has the patient taken a multivitamin regularly in the past 3 months:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>


48. Has the patient taken any vitamin E (either as a supplement or in a multivitamin) in the past 3 months:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>  
**50.** 

49. Was/Is the dose of vitamin E greater than 100 IU/day:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>  


*\*Caution: Use of vitamin E at more than 100 IU/day in the 3 months prior to randomization is exclusionary.*

50. Is the patient willing to refrain from taking vitamin E in amounts greater than 100 IU/day during TONIC:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>  


*\*Patient may not take vitamin E supplements at doses greater than 100 IU/day during TONIC.*

51. Does the patient have a known intolerance to vitamin E:  
 (  )<sup>Yes</sup> (  )<sup>No</sup>  


52. What other vitamins (other than multivitamins and vitamin E) has the patient taken in the past 3 months (check all that apply):
- a. Vitamin B (any type): (  )
  - b. Vitamin C: (  )
  - c. Vitamin D: (  )
  - d. Other, (specify): (  )
- \_\_\_\_\_
- e. None of the above: (  )

**K. Use of statins, fibrates, and antiobesity drugs**

53. Has the patient taken any lipid lowering medications in the past 3 months (check all that apply):
- a. Atorvastatin (Lipitor): (  )
  - b. Colestipol hydrochloride (Colestid): (  )
  - c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
  - d. Fenofibrate (Tricor): (  )
  - e. Fluvastatin sodium (Lescol): (  )
  - f. Lovastatin (Mevacor): (  )
  - g. Nicotinic acid (Niaspan): (  )
  - h. Pravastatin sodium (Pravachol): (  )
  - i. Rosuvastatin (Crestor): (  )
  - j. Simvastatin (Zocor): (  )
  - k. Other, (specify): (  )
- \_\_\_\_\_
- l. None of the above: (  )

**54.** Has the patient taken any antiobesity medications in the past 3 months  
(*check all that apply*):

- a.** Dexfenfluramine hydrochloride (Redux): (  )
- b.** Fenfluramine hydrochloride (Pondimin): (  )
- c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d.** Orlistat (Xenical): (  )
- e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
- f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
- h.** Other, (*specify*): (  )


---

- i.** Other, (*specify*): (  )

---

- j.** None of the above: (  )

**55.** Were any of the items 54a-i checked:

Yes No  
(  ) (  )  
\* 1 2  


*\*Caution: Use of antiobesity medications in the 3 months prior to randomization is exclusionary.*

**L. Use of other medications and supplements**

**56.** Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 3 months (*check all that apply*):

- a.** Acetaminophen (Tylenol): (  )
- b.** Aspirin - 325 mg: (  )
- c.** Celecoxib (Celebrex): (  )
- d.** Ibuprofen (Advil, Motrin): (  )
- e.** Indomethacin (Indocin): (  )
- f.** Naproxen (Aleve, Naprosyn): (  )
- g.** Other, (*specify*): (  )

---

- h.** Other, (*specify*): (  )

---

- i.** None of the above: (  )

**57.** Has the patient taken any histamine H2 receptor antagonists or other gastrointestinal medications in the past 3 months (*check all that apply*):

- a.** Cimetidine (Tagamet): (  )
- b.** Esomeprazole magnesium (Nexium): (  )
- c.** Famotidine (Pepcid): (  )
- d.** Lansoprazole (Prevacid): (  )
- e.** Nizatidine (Axid): (  )
- f.** Omeprazole (Prilosec): (  )
- g.** Ranitidine (Zantac): (  )
- h.** Ranitidine bismuth citrate (Tritec): (  )
- i.** Antacids, (*specify*): (  )

---

- j.** Other, (*specify*): (  )

---

- k.** Other, (*specify*): (  )

---

- l.** None of the above: (  )

**58.** Has the patient taken any allergy or asthma medications in the past 3 months that have not already been reported on this form (*check all that apply*)

- a.** Albuterol: (  )
- b.** Beclomethasone dipropionate (Beclvent, Vanceril): (  )
- c.** Budesonide (Pulmicort, Rhinocort): (  )
- d.** Fluticasone propionate (Flonase, Flovent): (  )
- e.** Loratadine (Claritin): (  )
- f.** Mometasone furoate (Nasonex): (  )
- g.** Triamcinolone acetonide (Azmacort, Nasacort): (  )
- h.** Other, (*specify*): (  )
- \_\_\_\_\_
- i.** Other, (*specify*): (  )
- \_\_\_\_\_
- j.** None of the above: (  )

**59.** Has the patient taken any supplements in the past 3 months that have not already been reported on this form (*check all that apply*)

- a.** Alpha-lipoic acid: (  )
- b.** Beta-carotene: (  )
- c.** Calcium (any form): (  )
- d.** Carnitine (any form): (  )
- e.** Chondroitin (any form): (  )
- f.** Cod liver oil: (  )
- g.** Coenzyme Q: (  )
- h.** Dichloroacetate: (  )
- i.** Echinacea: (  )
- j.** Fish oil (any form): (  )
- k.** Flax seed oil: (  )
- l.** Garlic: (  )
- m.** Ginkgo biloba: (  )
- n.** Glucosamine (any form): (  )
- o.** Lecithin: (  )
- p.** Magnesium: (  )
- q.** N-acetyl-cysteine: (  )
- r.** Potassium (any form): (  )
- s.** Saw palmetto: (  )
- t.** Selenium: (  )
- u.** St. John's Wort: (  )
- v.** Taurine: (  )
- w.** Zinc picolinate: (  )
- x.** Other, (*specify*): (  )
- \_\_\_\_\_
- y.** Other, (*specify*): (  )
- \_\_\_\_\_
- z.** None of the above: (  )

- 60.** Has patient taken any of the following medications in the past 3 months  
(check all that apply)
- a. Isotretinoin (Accutane): (  1 )
  - b. Levonorgestrel (Norplant): (  1 )
  - c. Levothyroxine (Levoxyl, Synthroid): (  1 )
  - d. Liothyronine (Cytomel): (  1 )
  - e. Oral contraceptives: (  1 )
  - f. Penicillamine (Cuprimine, Depen): (  1 )
  - g. Trientine hydrochloride (Syprine): (  1 )
  - h. Other, (specify): (  1 )  
\_\_\_\_\_
  - i. Other, (specify): (  1 )  
\_\_\_\_\_
  - j. Other, (specify): (  1 )  
\_\_\_\_\_
  - k. Other, (specify): (  1 )  
\_\_\_\_\_
  - l. Other, (specify): (  1 )  
\_\_\_\_\_
  - m. None of the above: (  1 )

- 64.** Are you willing to use effective birth control methods during TONIC:  
 ( Yes ) ( No )  
 (  1 ) (  2 )  
 EHG

**N. Administrative information**

- 65.** Study Physician PIN: \_\_\_\_\_
- 66.** Study Physician signature: \_\_\_\_\_
- 67.** Clinical Coordinator PIN: \_\_\_\_\_
- 68.** Clinical Coordinator signature: \_\_\_\_\_
- 69.** Date form reviewed:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**M. Willingness to use effective birth control methods**

- 61.** Are you female and of childbearing potential:  
 ( Yes ) ( No )  
 (  1 ) (  2 )  
 65.
- 62.** Are you currently pregnant:  
 ( Yes ) ( No )  
 (  1 ) (  2 )  
 EHG
- 63.** Are you currently breast feeding:  
 ( Yes ) ( No )  
 (  \*1 ) (  2 )  
 C

\*Caution: Patient cannot be breastfeeding at time of randomization.

**TONIC****BP - Blood Processing for Plasma and Serum**

**Purpose:** Document collection of fasting blood for local separation of plasma and serum and shipment to NIDDK Biosample Repository at Fisher BioServices.

**When:** Visits s2, f024, f048, f072, and f096.

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection and processing of whole blood.

**Instructions:** Put 2.7 mL of whole blood in CTAD tube and fill SST tubes with whole blood and prepare plasma and serum aliquots in the quantities specified below for the visit.

Visit	Plasma:		Serum:	
	No. of CTAD tubes	No. of plasma aliquots	No. of 10 mL SST tubes to fill	No. of serum aliquots
s2	1	2 or 3	4	40
f024	none	none	2	20
f048	1	2 or 3	4	40
f072	none	none	2	20
f096	1	2 or 3	4	40

Label CTAD and SST tubes of whole blood using labels specific for the patient and visit; these labels are generated by the clinic upon registration (screening labels) or after randomization (followup visit labels). Attach duplicate whole blood tube labels in items 11 and 13 below. Process blood for plasma and serum within two hours. After separation, prepare 2 or 3 aliquots of plasma, depending on volume of plasma obtained: transfer 0.5 mL of plasma to each of 2 or 3 (2.0 mL) cryovials. After separation, transfer 0.5 mL of serum to each of the 20 or 40 (2.0 mL) cryovials depending on the visit. Label the plasma and serum cryovials with the numbered patient-specific plasma (blue top) and serum (red top) cryovial labels provided by the DCC. Choose one of the cryovial label sets provided by the DCC for this patient for use with this visit. Affix serum aliquot #00 label (all visits) and plasma aliquot #00 label (if visit s2, f048, or f096) to this form in item 18. The LS code keyed from the cryovial labels in item 18 of this form links the cryovials collected today with the date and visit identified in items 4 and 5 of this form. Freeze labeled aliquots of plasma and serum immediately according to procedures specified in the TONIC SOP, Part I. **NOTE:** Immediately upon completion of plasma and serum aliquot preparation, destroy any left-over cryovial labels from the label set used at this visit; use of these cryovial labels at any other visit will result in aliquots from both visits being unusable since the visit at which they were collected will not be uniquely identified.

**A. Center, patient and visit identification**

6. Form &amp; revision:

b p 1

1. Center code: \_\_\_\_\_

7. Study:

TONIC 3

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

5. Visit code: \_\_\_\_\_



**18. Attach duplicate cryovial labels**  
*(use aliquot 00 labels which are located in the first row of labels for each label set):*

Serum aliquot #00 label	Plasma aliquot #00 label

**19. Technician:**  
 \_\_\_\_\_  
 print name

**D. Freezing aliquots**

*Freeze plasma and serum aliquots immediately at -70°C or -20°C. If frozen at -20°C, the cryovials must be transferred to -70°C within 24 hours. Batch ship monthly to the NIDDK BioSample Repository at Fisher BioServices.*

**20. Date and time cryovials frozen in -70°C or -20°C**

**a. Date:** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**b. Time:** \_\_\_\_\_ : \_\_\_\_\_ ( ) ( )  
 hour minute am pm

**21. Number of cryovials frozen:** \_\_\_\_\_

**22. Technician:**  
 \_\_\_\_\_  
 print name

**E. Administrative information**

**23. Clinical Coordinator PIN:** \_\_\_\_\_

**24. Clinical Coordinator signature:**  
 \_\_\_\_\_

**25. Date form reviewed:**  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year







### Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.  
**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.  
**By whom:** Data Coordinating Center staff.  
**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c  r  1   6. Form and revision
- \_\_\_ 7. Study: **1**=Database; **2**=PIVENS; **3**=TONIC
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- 9. Sequence number for
  - \_\_\_ \_\_\_ ... a. H & E stained slide
  - \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
  - \_\_\_ \_\_\_ ... c. Iron stained slide
  - \_\_\_ \_\_\_ ... d. Other slide
- ..... Specify type of stain for other slide

**C. Administrative information**

- \_\_\_ \_\_\_ \_\_\_ 10. CC Initials
- \_\_\_ \_\_\_ \_\_\_ 11. CC Signature
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 12. Date form reviewed
- \_\_\_ 13. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_ \_\_\_ \_\_\_ 14. Followup with clinic (*Specify*):

15. Biopsy length (mm)

### H & E stain

16. Steatosis (assume macro, e.g., large and small droplet)

... a. Grade: **0**=<5%; **1**=5-33%; **2**=34-66%; **3**=>66%

... b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar

... c. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

17. Inflammation

... a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0**=0; **1**=<2 under 20x mag; **2**=2-4 under 20 mag; **3**=>4 under 20 mag

... b. Microgranulomas seen: **0**=No; **1**=Yes

... c. Large lipogranulomas seen: **0**=No; **1**=Yes

... d. Amount of portal, chronic inflammation: **0**=None; **1**=Mild; **2**=More than mild

18. Liver cell injury

... a. Ballooning: **0**=None; **1**=Few; **2**=Many

... b. Acidophil bodies: **0**=Rare/absent; **1**=Many

... c. Pigmented macrophages (*Kupffer cells*): **0**=Rare/absent; **1**=Many

... d. Megamitochondria: **0**=Rare/absent; **1**=Many

19. Mallory's hyaline: **0**=Rare/absent; **1**=Many

20. Glycogen nuclei: **0**=Rare/absent; **1**=Many

### Masson's trichrome stain

21. Fibrosis stage: **0**=None; **1a**=Mild, zone 3 perisinusoidal (*requires trichrome*);

**1b**=Moderate, zone 3, perisinusoidal (*does not require trichrome*); **1c**=Portal/periportal only;

**2**=Zone 3 and periportal, any combination; **3**=Bridging; **4**=Cirrhosis

### 22. Iron stain

... a. Hepatocellular iron grade: **0**=Absent or barely discernible, 40x → **GOTO item 22c**;

**1**=Barely discernible granules, 20x; **2**=Discrete granules resolved, 10x; **3**=Discrete granules resolved, 4x;  
**4**=Masses visible by naked eye

... b. Hepatocellular iron distribution: **0**=Periportal; **1**=Periportal and midzonal; **2**=Panacinar; **3**=Zone 3 or azonal

... c. Nonhepatocellular iron grade: **0**=None → **GOTO item 23**; **1**=Mild; **2**=More than mild

... d. Nonhepatocellular iron distribution: **0**=Large vessel endothelium only; **1**=Portal/fibrosis bands only, but more than just in large vessel endothelium; **2**=Intraparenchymal only; **3**=Both portal and intraparenchymal

23. Is this steatohepatitis? **0**=No; **1a**=Suspicious/borderline/indeterminate: Zone 3 pattern;

**1b**=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; **2**=Yes, definite

24. Is cirrhosis present? **0**=No → **GOTO item 27**; **1**=Yes

25. Is this cryptogenic cirrhosis: **0**=No → **GOTO item 27**; **1**=Yes

26. Features suggestive of steatohepatitis etiology for cryptogenic cirrhosis:

... a. Mallory's hyaline (*rule out cholate stasis*): **0**=Absent; **1**=Present

... b. Perisinusoidal fibrosis away from septa: **0**=Absent; **1**=Present

... c. Hepatocyte ballooning: **0**=Absent; **1**=Present

... d. Megamitochondria: **0**=Absent; **1**=Present

... e. Other notable findings: **0**=Absent; **1**=Present; Specify: \_\_\_\_\_

27. Other comments: \_\_\_\_\_

## TONIC

## DR - Death Report

**Purpose:** To record the report of a patient's death.

**When:** As soon as clinic is notified of a patient's death.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete this form whenever the clinical center is informed of a patient's death. If the death is considered associated or possibly associated with participation in TONIC, complete a Serious Adverse Event (AN) form and follow the directions on Form AN for reporting a SAE in TONIC.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form is initiated (*date of notice*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: n \_\_\_\_\_

6. Form & revision: d r 1

7. Study: TONIC 3

**10. Place of death:**

\_\_\_\_\_ city/state/country

\_\_\_\_\_ city/state/country

**11. Cause of death**

*(Study Physician: use whatever knowledge you have and your best medical judgment to best characterize the cause of death; check only one):*

Heart disease (  1 )

Stroke (  2 )

Liver disease (  3 )

Malignancy (  4 )

Other (*specify*): (  5 )

\_\_\_\_\_ specify

\_\_\_\_\_ specify

Unknown (  6 )

**B. Death information**

8. Date of death:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Source of death report (*check all that apply*):

a. Patient's family: (  1 )

b. Friend: (  1 )

c. Health care provider or NASH CRN staff: (  1 )

d. Newspaper: (  1 )

e. Funeral parlor/home: (  1 )

f. Medical record: (  1 )

g. Medical examiner: (  1 )

h. Coroner: (  1 )

i. Other (*specify*): (  1 )

\_\_\_\_\_ other source

\_\_\_\_\_ other source

**C. Administrative information**

12. Study Physician PIN: \_\_\_\_\_

13. Study Physician signature: \_\_\_\_\_

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature: \_\_\_\_\_

16. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year



# TONIC

## EC - Eligibility Checklist

**Purpose:** To check eligibility for TONIC with respect to items not checked elsewhere on TONIC screening forms and record reasons for ineligibility for patients found to be ineligible.

**When:** Visit rz.

**Administered by:** Study Physician and Clinical Coordinator.

**Respondent:** Patient and Clinical Coordinator.

**Instructions:** This form may be initiated at any time. If the patient proceeds to randomization, it must be reviewed on the day of randomization. Patients of childbearing potential must complete the randomization day pregnancy test at the clinic on the day of randomization. Patients who are not of childbearing potential may complete the randomization day visit over the telephone. If this is the case, these requirements must be followed:

- (1) If your consent statement has an area for affirmation of consent prior to randomization, the patient should have signed the affirmation at his/her last screening visit.
- (2) The clinical coordinator must confirm with the patient by telephone on the day of randomization, that the patient feels well and continues to consent to randomization.
- (3) The assigned study medication must be mailed to the patient on the day of randomization for delivery the next day.
- (4) The patient should be instructed to start the medications as soon as possible after receipt.

If  is checked for any item, complete the entire form, but note that the patient may not continue in the TONIC trial. If an item has not been assessed because the patient is ineligible, write "m" (missing) next to that item. This form should be completed for each patient for whom form RG was completed

### A. Center, patient, visit, and study identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code:  r   z  \_\_\_\_\_

6. Form & revision:  e   c   1

7. Study: TONIC  3

### B. Alcohol use exclusion

8. Does the patient have a history of significant alcohol intake:

(Yes) (No)  
( 1 ) ( 2 )  
 **Elig**

9. In the judgment of the Study Physician and/or Clinical Coordinator, can the patient (or the patient's parent/guardian) reliably quantify the child's (*past and current*) alcohol intake:

(Yes) (No)  
( 1 ) ( 2 )  
 **Elig**

10. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient's alcohol use since starting the screening process consistent with TONIC eligibility criteria:

(Yes) (No)  
( 1 ) ( 2 )  
 **Elig**

**C. Cirrhosis exclusion**

**11. Clinical cirrhosis evaluation**

**a.** Does the patient have varices or ascites and does the Study Physician judge that the patient has cirrhosis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**b.** In the Study Physician's judgment, does the patient have cirrhosis (*INR > 1.3, albumin < 3.0 g/dL, or conjugated bilirubin > 2 mg/dL may indicate cirrhosis*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**D. Other chronic liver disease exclusions**

**12. Evidence of autoimmune liver disease**

**a.** Does the patient have ongoing autoimmune liver disease defined by the presence of anti-nuclear antibody (ANA) of greater than 1:80 and liver histology consistent with autoimmune liver disease:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**b.** In the Study Physician's judgment, does the patient have a history of autoimmune hepatitis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**13.** Does the patient have Wilson's disease defined by the ceruloplasmin below the lower limit of normal and liver histology consistent with Wilson's disease:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**14.** Does the patient have alpha-1 antitrypsin (A1AT) deficiency confirmed by A1AT level less than normal (*physician judgment*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**15.** Does the patient have an iron overload as defined by presence of 3+ or 4+ stainable iron on liver biopsy:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**16.** Do any of the patient's assessments show evidence of other chronic liver disease

**a.** Drug induced liver disease as defined on the basis of typical exposure and history:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**b.** Known bile duct obstruction:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**c.** Any other type of liver disease other than NAFLD that warrants exclusion from the trial:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**E. Other medical exclusions**

**17.** History of metabolic acidosis:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**18.** History of renal dysfunction:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**19.** History of coagulopathy:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**20.** History of diabetes mellitus:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**21.** History of bariatric surgery (*jejunoileal bypass or gastric weight loss surgery*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig



22. History of hepato-biliary surgery:  
 (Yes) (No)  
 ( ) ( )  
 1  2

23. Inability to safely undergo liver biopsy:  
 (Yes) (No)  
 ( ) ( )  
 1  2

24. Use of drugs associated with NAFLD for more than 2 consecutive weeks in the 2 years prior to screening:  
 (Yes) (No)  
 ( ) ( )  
 1  2

25. Use of antidiabetic drugs in the 3 months prior to randomization:  
 (Yes) (No)  
 ( ) ( )  
 1  2

26. Use of antiNAFLD drugs in the 3 months prior to randomization:  
 (Yes) (No)  
 ( ) ( )  
 1  2

27. Use of antiobesity drugs in the 3 months prior to randomization:  
 (Yes) (No)  
 ( ) ( )  
 1  2

28. Use of Vitamin E at a dose greater than 100 IU/day in the 3 months prior to randomization:  
 (Yes) (No)  
 ( ) ( )  
 1  2

29. Known active, serious medical disease with a likely life-expectancy less than 5 years:  
 (Yes) (No)  
 ( ) ( )  
 1  2

30. Known active substance abuse, such as alcohol or inhaled or injection drugs in the year prior to screening:  
 (Yes) (No)  
 ( ) ( )  
 1  2

31. Other condition which, in the opinion of the investigator, would impede compliance or hinder completion of the study:  
 (Yes) (No)  
 ( ) ( )  
 1  2

**F. Birth control exclusion**

32. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient willing to use effective birth control methods to avoid pregnancy during the 96 weeks of treatment:  
 Male or not of childbearing potential  
 Yes ( )  
 No ( )  
 0  1  2

**G. Check on ability to swallow study medication**

33. In your judgment (Study Physician/Clinical Coordinator), is the patient able to swallow the TONIC study medications (*if you are unsure, you may ask the patient to swallow a capsule from the sample bottle of placebo metformin sent by the DCC prior to the start of TONIC*):  
 (Yes) (No)  
 ( ) ( )  
 1  2

**H. Eligibility check on day of randomization**

*(Do in person if patient is of childbearing potential; otherwise, these checks may be done over the telephone with the patient on the day of randomization.)*

34. Was an ineligibility condition checked or an eligibility not ascertained in items 8-33:  
 (Yes) (No)  
 ( ) ( )  
 1  2  
 43. \_\_\_\_\_

*\*Key visits s1 and s2 forms RG, AD, BC, BD, BG, BP, CG, DX, HF, LP, LR, LS, LU, MA, MR (if available), PE, PQ/PR, PY/PW, SD. Run the Randomization Task on your clinic data system.*

35. Were any stops or ineligible conditions other than “missing form EC” identified by the Randomization Task:

Yes ( 1 )

43.

No ( 2 )

Task not run because patient is known to be ineligible ( 3 )

43.

36. Does the patient feel well today:

( Yes ) ( No )

STOP

*\*Defer randomization until the patient feels well; when the patient returns to attempt randomization again, review all items on this form and update each item as needed.*

37. Is the patient male:

( Yes ) ( No )

41.

38. Is the patient of childbearing potential:

( Yes ) ( No )

40.

*\*Administer pregnancy test.*

39. Is the patient pregnant (*positive pregnancy test on the day of randomization*):

( Yes ) ( No )

( \* 1 )

Elig

( 2 )

*\*Go to item 43.*

40. Is the patient currently breast feeding:

( Yes ) ( No )

( \* 1 )

Elig

( 2 )

*\*Go to item 43.*

41. Per the Study Physician’s judgment, is there any reason to exclude the patient from randomization:

( Yes ) ( No )

( \* 1 )

Elig

( 2 )

*\*If Yes, specify reason and then go to item 43:*

\_\_\_\_\_ specify reason

42. Does the patient still consent to randomization (*you should ask the patient to orally affirm his/her consent*):

( Yes ) ( No )

( \* 1 )

Elig

( 2 )

44.

*\*Go to item 44 and complete this form. Then key this form and run the Randomization Task on your clinic data system to randomize the patient.*

*†Complete items 43-48 and key the form. The form must be keyed to document the reasons for ineligibility for TONIC.*

**I. Reasons for ineligibility for ineligible patients**

*Note: Complete this section for ineligible patients only.*

**43. Reason for ineligibility (check all that apply)**

- a. Reason covered in items 8-42: (  )
- b. Biopsy out of window and patient chose not to repeat: (  )
- c. Biopsy inadequate for scoring and patient chose not to repeat: (  )
- d. Local pathologist did not find steatosis: (  )
- e. Creatinine  $\geq$  1.5 mg/dL for males or creatinine  $\geq$  1.4 mg/dL for females: (  )
- f. Positive for hepatitis B: (  )
- g. Positive for hepatitis C: (  )
- h. ALT < 60 U/L: (  )
- i. ALT > 400 U/L: (  )
- j. Fasting serum glucose  $\geq$  126 mg/dL or 2 hour serum glucose  $\geq$  200 mg/dL: (  )
- k. Known intolerance to metformin: (  )
- l. Known intolerance to vitamin E: (  )
- m. Liver transplant: (  )
- n. Currently being evaluated for bariatric surgery: (  )
- o. TPN in the past 3 years prior to screening: (  )
- p. Inability to swallow study medication: (  )
- q. Tests are outside time window and clinic chose not to repeat tests: (  )
- r. Other reason not covered on this form (specify): (  )

\_\_\_\_\_ specify

**J. Administrative information**

**44. Study Physician PIN:** \_\_\_\_\_

**45. Study Physician signature:**  
\_\_\_\_\_

**46. Clinical Coordinator PIN:** \_\_\_\_\_

**47. Clinical Coordinator signature:**  
\_\_\_\_\_

**48. Date form reviewed**  
*(Note re: patient proceeding to randomization: this form must be reviewed on the day of randomization; if it was keyed prior to the randomization day, update it and re-review it on the day of randomization and key the revised date of review.):*

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

*(NOTE: If patient was not present in the clinic to receive the assigned medication, send the medication to the patient by overnight delivery service.)*

# TONIC

## FI - Family Member Identification

**Purpose:** To identify that a TONIC patient has one or more siblings (full, half or not biological) or parents (biological or not) enrolled in TONIC, PIVENS, or NAFLD Database.

**When:** As needed. Complete one FI form for each TONIC patient with siblings or parents enrolled in TONIC, PIVENS, or NAFLD Database. Update form as needed during follow-up if additional siblings or parents enroll in TONIC, PIVENS, or NAFLD Database.

**By whom:** Clinical coordinator.

**Instructions:** Form is to be completed if there is a patient randomized in TONIC who has one or more siblings or a parent enrolled in TONIC, PIVENS, or NAFLD Database. The index patient's study identifiers are recorded in section A. Up to 5 siblings can be entered on a form in section B. One mother and one father can be entered in section C. If there are more than 5 siblings (not including the index patient) or 1 of each parent in TONIC, PIVENS, or NAFLD Database, call the DCC for directions.

**Please note:** full and half siblings and biological parents do not need to live with the index patient. The not biological category would include non-blood related siblings or parents spending most of their time in the same household as the index patient, i.e., adoptive, step, foster, etc. Call the DCC with any questions.

### A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: n \_\_\_\_\_

6. Form & revision: f i 1

7. Study: TONIC 3

### B. Study identifiers of sibling(s) of the index patient recorded in section A

8. How many siblings of the index patient identified in item 2 are enrolled in TONIC, PIVENS, or NAFLD Database (if no siblings, code "0" and skip to item 14; call the DCC if more than 5 siblings are enrolled in TONIC, PIVENS, or NAFLD Database):

0-5

If zero (0), then skip to item 14.

### 9. First sibling

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient (select one):

Full ( 1 )  
 Half ( 2 )  
 Not biological ( 3 )

Skip to item 14 if there are no more siblings enrolled in TONIC, PIVENS, or NAFLD Database.

### 10. Second sibling

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient (select one):

Full ( 1 )  
 Half ( 2 )  
 Not biological ( 3 )

Skip to item 14 if there are no more siblings enrolled in TONIC, PIVENS, or NAFLD Database.

**11. Third sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Skip to item 14 if there are no more siblings enrolled in TONIC, PIVENS, or NAFLD Database.*

**12. Fourth sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Skip to item 14 if there are no more siblings enrolled in TONIC, PIVENS, or NAFLD Database.*

**13. Fifth sibling**

a. Patient ID: \_\_\_\_\_

b. Patient code: \_\_\_\_\_

c. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Half ( 2 )
- Not biological ( 3 )

*Call the DCC for instructions if there are more siblings enrolled in TONIC, PIVENS, or NAFLD Database.*

**C. Study identifiers of the parents of the index patient recorded in section A (call the DCC if more than 1 mother and/or 1 father are enrolled in PIVENS or NAFLD Database)**

**14. Mother of index patient**

a. Is the mother of the index patient enrolled in PIVENS or NAFLD Database:

- ( Yes 1 )
- ( No 2 )

**15.**

b. Patient ID: \_\_\_\_\_

c. Patient code: \_\_\_\_\_

d. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Not biological ( 2 )

**15. Father of index patient**

a. Is the father of the index patient enrolled in PIVENS or NAFLD Database:

- ( Yes 1 )
- ( No 2 )

**16.**

b. Patient ID: \_\_\_\_\_

c. Patient code: \_\_\_\_\_

d. Biological relationship to index patient  
(select one):

- Full ( 1 )
- Not biological ( 2 )

**D. Administrative information**

**16. Clinical coordinator PIN:** \_\_\_\_\_

**17. Clinical coordinator signature:**  
\_\_\_\_\_

**18. Date form reviewed:**

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



**E. Tobacco cigarette smoking** (*interview with patient*)

14. Since the last visit, have you smoked tobacco cigarettes regularly (“No” means less than 1 day per week on average):

() Yes () No

17.

15. On average, how many days per week have you smoked cigarettes:

\_\_\_\_\_ # days

16. On the days that you smoked, about how many cigarettes did you smoke per day:

\_\_\_\_\_ # cigarettes per day

**F. Medical history**

17. Since the last visit, has the patient been diagnosed with or treated for any of the following (*check all that apply; source of information can be interview and/or chart review*)

- a. Diabetes type 1: (  )
- b. Diabetes type 2: (  )
- c. Gestational diabetes (*diabetes of pregnancy*): (  )
- d. Hepatitis B: (  )
- e. Hepatitis C: (  )
- f. Autoimmune hepatitis: (  )
- g. Autoimmune cholestatic liver disorder (PBC or PSC): (  )
- h. Wilson’s disease: (  )
- i. Alpha-1-antitrypsin (A1AT) deficiency: (  )
- j. Hemochromatosis or iron overload: (  )
- k. Drug induced liver disease: (  )
- l. Gilbert’s syndrome: (  )
- m. Esophageal or gastric varices on endoscopy: (  )
- n. Bleeding from varices: (  )
- o. Other gastrointestinal bleeding: (  )
- p. Biliary diversion: (  )
- q. Metabolic acidosis: (  )
- r. Ascites: (  )
- s. Edema: (  )
- t. Hepatic encephalopathy: (  )
- u. Portal hypertension: (  )
- v. Hepatorenal syndrome: (  )
- w. Hepatopulmonary syndrome: (  )
- x. Short bowel syndrome: (  )
- y. Hemophilia (*bleeding disorder*): (  )
- z. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: (  )
- aa. Endocrine disease (*hormonal abnormality*): (  )
- ab. Hepatocellular carcinoma: (  )
- ac. Other malignancy (*cancer*): (  )
- ad. Human immunodeficiency virus (HIV): (  )
- ae. Peripheral neuropathy: (  )
- af. Seizure disorder or epilepsy: (  )
- ag. Drug allergies: (  )
- ah. Hypothyroidism: (  )
- ai. Hypertension: (  )
- aj. Cerebrovascular disease: (  )
- ak. Dysbetalipoproteinemia: (  )
- al. Hyperlipidemia (*high cholesterol, high triglycerides*): (  )
- am. Pancreatitis: (  )
- an. Cholelithiasis: (  )
- ao. Coronary artery disease: (  )
- ap. Congestive heart failure: (  )
- aq. Elevated uric acid such as gout: (  )
- ar. Kidney disease: (  )
- as. Polycystic ovary syndrome: (  )
- at. Sleep apnea (*not breathing during sleep*): (  )
- au. Dermatologic disorders: (  )
- av. Myopathy: (  )
- aw. Myositis: (  )

- ax.** Major depression: ( 1 )
  - ay.** Schizophrenia: ( 1 )
  - az.** Bipolar disorder: ( 1 )
  - ba.** Obsessive compulsive disorder: ( 1 )
  - bb.** Severe anxiety or personality disorder: ( 1 )
  - bc.** Substance abuse: ( 1 )
  - bd.** None of the above: ( 1 )
- 18.** Since the last visit, has the patient had bariatric surgery for any of the following (check all that apply)
- a.** Stapling or banding of the stomach: ( 1 )
  - b.** Jejunioleal (or other intestinal) bypass: ( 1 )
  - c.** Biliopancreatic diversion: ( 1 )
  - d.** Other GI or bariatric surgery, (specify): ( 1 )
- 
- e.** None of the above: ( 1 )

- 19.** Since the last visit, has the patient received an organ, limb, or bone marrow transplant:
- Yes ( 1 )      No ( 2 )

- 20.** Since the last visit, has the patient received total parenteral nutrition (TPN):
- Yes ( 1 )      No ( 2 )

- 21.** Since the last visit, has the patient been hospitalized:
- Yes ( 1 )      No ( 2 )

**22.** \_\_\_\_\_

*If Yes, specify reason:*

---

specify

- 22.** Since the last visit, has the patient had any serious health problem not already reported:
- Yes ( 1 )      No ( 2 )

**23.** \_\_\_\_\_

*If Yes, specify:*

---

specify

**G. Medication use**

- 23.** Since the last visit, has the patient used any antidiabetic medications (check all that apply):
- a.** Acarbose (Precose): ( 1 )
  - b.** Acetohexamide (Dymelor): ( 1 )
  - c.** Chlorpropamide (Diabinese): ( 1 )
  - d.** Glimepiride (Amaryl): ( 1 )
  - e.** Glipizide (Glucotrol, Glucotrol XL): ( 1 )
  - f.** Glyburide (Micronase, DiaBeta, Glynase): ( 1 )
  - g.** Insulin: ( 1 )
  - h.** Metformin (Glucophage, Glucophage XR) (do not include TONIC study medication): ( 1 )
  - i.** Miglitol (Glycet): ( 1 )
  - j.** Nateglinide (Starlix): ( 1 )
  - k.** Pioglitazone (Actos): ( 1 )
  - l.** Repaglinide (Prandin): ( 1 )
  - m.** Rosiglitazone (Avandia): ( 1 )
  - n.** Tolazamide (Tolinase): ( 1 )
  - o.** Tolbutamide (Orinase): ( 1 )
  - p.** Other, (specify): ( 1 )
- 
- q.** None of the above: ( 1 )



24. Since the last visit, has the patient taken any lipid lowering medications *(check all that apply)*:

- a. Atorvastatin (Lipitor): (  )
- b. Colestipol hydrochloride (Colestid): (  )
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
- d. Gemfibrozil (Gen-Fibro, Lopid): (  )
- e. Fenofibrate (Tricor): (  )
- f. Fluvastatin sodium (Lescol): (  )
- g. Lovastatin (Mevacor): (  )
- h. Nicotinic acid (Niaspan): (  )
- i. Pravastatin sodium (Pravachol): (  )
- j. Rosuvastatin (Crestor): (  )
- k. Simvastatin (Zocor): (  )
- l. Other, *(specify)*: (  )

\_\_\_\_\_

m. None of the above: (  )

25. Since the last visit, has the patient taken any antiobesity medications *(check all that apply)*:

- a. Dexfenfluramine hydrochloride (Redux): (  )
- b. Fenfluramine hydrochloride (Pondimin): (  )
- c. Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d. Orlistat (Xenical): (  )
- e. Phendimetrazine tartrate (Adipost, Bontril): (  )
- f. Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g. Sibutramine hydrochloride monohydrate (Meridia): (  )
- h. Other, *(specify)*: (  )

\_\_\_\_\_

i. Other, *(specify)*: (  )

\_\_\_\_\_

j. None of the above: (  )

26. Since the last visit, has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications *(check all that apply)*:

- a. Acetaminophen (Tylenol): (  )
- b. Aspirin - 325 mg: (  )
- c. Celecoxib (Celebrex): (  )
- d. Ibuprofen (Advil, Motrin): (  )
- e. Indomethacin (Indocin): (  )
- f. Naproxen (Aleve, Naprosyn): (  )
- g. Valdecoxib (Bextra): (  )
- h. Other, *(specify)*: (  )

\_\_\_\_\_

i. Other, *(specify)*: (  )

\_\_\_\_\_

j. None of the above: (  )

27. Since the last visit, has the patient taken any histamine H2 receptor antagonists or other gastrointestinal medications *(check all that apply)*:

- a. Cimetidine (Tagamet): (  )
- b. Esomeprazole magnesium (Nexium): (  )
- c. Famotidine (Pepcid): (  )
- d. Lansoprazole (Prevacid): (  )
- e. Nizatidine (Axid): (  )
- f. Omeprazole (Prilosec): (  )
- g. Ranitidine (Zantac): (  )
- h. Ranitidine bismuth citrate (Tritec): (  )
- i. Antacids, *(specify)*: (  )

\_\_\_\_\_

j. Other, *(specify)*: (  )

\_\_\_\_\_

k. Other, *(specify)*: (  )

\_\_\_\_\_

l. None of the above: (  )

- 28.** Since the last visit, has the patient taken any systemic corticosteroids (check all that apply):
- a. Betamethasone sodium (Celestone): (  )
  - b. Cortisol: (  )
  - c. Cortisone: (  )
  - d. Dexamethasone (Decadron): (  )
  - e. Hydrocortisone (Hydrocortone): (  )
  - f. Methylprednisolone (Solu-Medrol): (  )
  - g. Prednisolone (Prelone): (  )
  - h. Prednisone: (  )
  - i. Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
  - j. Other, (specify): (  )  
\_\_\_\_\_
  - k. Other, (specify): (  )  
\_\_\_\_\_
  - l. None of the above: (  )

- 29.** Since the last visit, has the patient taken any anabolic steroids or tamoxifen (check all that apply):
- a. Boldenone undecylenate (Equipose): (  )
  - b. Fluoxymesterone (Android-F, Halotestin): (  )
  - c. Methandrostenolone (Dianabol): (  )
  - d. Methyltestosterone (Android): (  )
  - e. Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): (  )
  - f. Oxandrolone (Oxandrin): (  )
  - g. Oxymetholone (Anadrol): (  )
  - h. Stanzolol (Winstrol): (  )
  - i. Tamoxifen (Nolvadex): (  )
  - j. Testosterone (Depo Testosterone): (  )
  - k. Other, (specify): (  )  
\_\_\_\_\_
  - l. Other, (specify): (  )  
\_\_\_\_\_
  - m. None of the above: (  )

- 30.** Since the last visit, has the patient taken any allergy or asthma medications (check all that apply):
- a. Albuterol: (  )
  - b. Beclomethasone dipropionate (Beclvent, Vanceril): (  )
  - c. Budesonide (Pulmicort, Rhinocort): (  )
  - d. Fluticasone propionate (Flonase, Flovent): (  )
  - e. Loratadine (Claritin): (  )
  - f. Mometasone furoate (Nasonex): (  )
  - g. Triamcinolone acetonide (Azmacort, Nasacort): (  )
  - h. Other, (specify): (  )  
\_\_\_\_\_
  - i. Other, (specify): (  )  
\_\_\_\_\_
  - j. None of the above: (  )

- 31.** Since the last visit, has the patient taken a multivitamin regularly:
- ( Yes  ) ( No  )

- 32.** Since the last visit, has the patient taken vitamins other than multivitamins (do not include TONIC study medication):
- ( Yes  ) ( No  )
- 35.**

- 33.** Which vitamins has the patient taken (check all that apply):
- a. Vitamin B (any type): (  )
  - b. Vitamin C: (  )
  - c. Vitamin D: (  )
  - d. Vitamin E (alpha-tocopherol): (  )
  - e. Other, (specify): (  )  
\_\_\_\_\_

- 34.** Is the patient currently taking vitamin E at a dose greater than 100 IU/day (do not include TONIC study medication):
- ( Yes  ) ( No  )
- ( \*  ) (  )

\*Remind patient not to take vitamin E supplements at doses greater than 100 IU/day during TONIC.

35. Since the last visit, has the patient taken any supplements (*check all that apply*):

- a. Alpha-lipoic acid: (  )
- b. Beta-carotene: (  )
- c. Betaine (Cystadane): (  )
- d. Calcium (any form): (  )
- e. Carnitine (any form): (  )
- f. Chondroitin (any form): (  )
- g. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- h. Cod liver oil: (  )
- i. Coenzyme Q: (  )
- j. Dichloroacetate: (  )
- k. Echinacea: (  )
- l. Fish oil (any form): (  )
- m. Flax seed oil: (  )
- n. Garlic: (  )
- o. Ginkgo biloba: (  )
- p. Glucosamine (any form): (  )
- q. Lecithin: (  )
- r. Magnesium: (  )
- s. Milk thistle: (  )
- t. N-acetyl-cysteine: (  )
- u. Potassium (any form): (  )
- v. Probiotics (any form): (  )
- w. S-adenylmethionine (SAM-e): (  )
- x. Saw palmetto: (  )
- y. Selenium: (  )
- z. St. John's Wort: (  )
- aa. Taurine: (  )
- ab. Zinc picolinate: (  )
- ac. Other, (*specify*): (  )
- 
- ad. Other, (*specify*): (  )
- 
- ae. None of the above: (  )

36. Since the last visit, has the patient taken any of the following medications or other supplements or medications (*record all other supplements or medications*):

- a. Acetylsalicylic acid (ASA): (  )
- b. Aspirin - 325 mg: (  )
- c. Demeclocycline (Declomycin): (  )
- d. Divalproex (Depakote): (  )
- e. Doxycycline (Monodox): (  )
- f. Isotretinoin (Accutane): (  )
- g. Levonorgestrel (Norplant): (  )
- h. Levothyroxine (Levoxyol, Synthroid): (  )
- i. Liothyronine (Cytomel): (  )
- j. Minocycline (Dynacin, Minocin): (  )
- k. Oral contraceptives: (  )
- l. Oxytetracycline (Terramycin): (  )
- m. Penicillamine (Cuprimine, Depen): (  )
- n. Tetracycline (Achromycin): (  )
- o. Trientine hydrochloride (Syprine): (  )
- p. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): (  )
- q. Valproate sodium (Depacon): (  )
- r. Valproic acid (Depakene): (  )
- s. Other, (*specify*): (  )
- 
- t. Other, (*specify*): (  )
- 
- u. Other, (*specify*): (  )
- 
- v. Other, (*specify*): (  )
- 
- w. Other, (*specify*): (  )
- 
- x. None of the above: (  )

**H. Administrative information**

37. Study Physician PIN: \_\_\_\_\_

38. Study Physician signature:  
\_\_\_\_\_

39. Clinical Coordinator PIN: \_\_\_\_\_

40. Clinical Coordinator signature:  
\_\_\_\_\_

41. Date form reviewed:  
\_\_\_\_-\_\_\_\_-\_\_\_\_  
day mon year

# TONIC

## IE - Interim Event Report

**Purpose:** To document (1) events that occur after registration but before randomization, or between regular followup visits that impact on the patient's treatment or participation in TONIC (eg, temporary or permanent cessation of study medication), or (2) adverse events associated with study drug that do not meet the criteria for Serious Adverse Event/IND Safety Report (AN) form, or participation in TONIC, or (3) other event that clinical center staff feel should be reported now rather than wait until the next followup visit and that is not recorded on another TONIC form. Adverse events associated with TONIC study drugs that are both serious and unexpected should not be reported on this (IE) form, but should be recorded on the AN form.

**When:** As needed; use visit code n. If more than one event is reported on the same calendar day (ie, same date in item 4 for all events), use visit code n for first event, n1 for second event, etc.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form for any event that meets the criteria above. The short name (item 21) and the severity code (item 22) are to be obtained from the NCI's Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). Click on Documents and then click on General Documents. Fax the DCC (Attention: Aynur Ünalp-Arida) a copy of this form if severity grade is 3 or higher (Fax 410-955-0932).

**NASH CRN Data Coordinating Center telephone number:** (410) 955-8175.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      n \_\_\_\_\_

6. Form & revision:                      i e 1

7. Study:    TONIC 3

### B. Visit interval identification

8. Most recently completed visit (screening or followup)

a. Date: \_\_\_\_\_  
 day                      mon                      year

b. Visit code: \_\_\_\_\_

### C. Patient information

9. Date randomized in TONIC (*enter n if patient is not yet randomized*):

\_\_\_\_\_ day                      mon                      year

10. Gender:

Male    ( 1 )

Female    ( 2 )

11. Age at time of event: \_\_\_\_\_  
 years

12. Is the patient currently receiving the metformin-series study drug:

( Yes 1 )                      ( No 2 )

13. Is the patient currently receiving the vitamin E-series study drug:

( Yes 1 )                      ( No 2 )

14. Summarize the patient's history of treatment with TONIC study drugs (*eg, how long has patient been on study drugs, have there been any treatment interruptions*):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**D. Event description**

15. Is the event associated with TONIC study drugs:

Yes ( 1 )       No ( 2 )  
18.

16. Is the event due to the metformin-series study drug:

Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

17. Is the event due to the vitamin E-series study drug:

Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

18. Date event started:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

19. Nature of event (*check all that apply*)

- a. Drug dispensing mixup: ( 1 )
- b. Medication related event: ( 1 )
- c. Study procedure related event: ( 1 )
- d. Drug interactions: ( 1 )
- e. Worsening of a co-morbid illness: ( 1 )
- f. Patient reported symptom of hepatotoxicity: ( 1 )
- g. Hypoglycemia: ( 1 )
- h. New-onset diabetes: ( 1 )
- i. Pregnancy (*patient*): ( \* 1 )
- j. Intravenous contrast dye use: ( 1 )
- k. General anesthesia: ( 1 )
- l. Lactic acidosis: ( 1 )
- m. Other (*specify*): ( 1 )

\_\_\_\_\_

\_\_\_\_\_

*\*TONIC study drugs will be discontinued if the patient herself is pregnant. Contact the NASH CRN Data Coordinating Center to unmask the study drugs. Complete a Study Drug Dispensing and Return (RD) Form.*

20. Describe event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

21. Short name for event if applicable (*short names for AEs are listed in the CTCAE v3.0 document available at [www.nashcrn.com](http://www.nashcrn.com); click on Documents and then click on General Documents*):

Not applicable ( 0 )

\_\_\_\_\_

\_\_\_\_\_

22. Severity grade (*severity grades are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Documents and then click on General Documents; use Serious Adverse Event Report (AN) to report serious and unexpected adverse events or call the DCC if unsure what to do*):

- Not applicable ( 0 )
- Grade 1 - Mild ( 1 )
- Grade 2 - Moderate ( 2 )
- Grade 3 - Severe ( 3 )
- Grade 4 - Life threatening or disabling ( 4 )
- Grade 5 - Death ( \* 5 )

*\*Complete and key Death Report (DR) form.*

23. Date event resolved (*enter n if event is not yet resolved*):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

24. What action was taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

25. Other comments on event:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**E. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
 \_\_\_\_\_

28. Study Physician PIN: \_\_\_\_\_

29. Study Physician signature:  
 \_\_\_\_\_

30. Date form reviewed:  
 \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

*Key this form and fax the DCC (Attention: Aynur Unalp-Arida) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious events so that we assure appropriate and timely study wide review. The received reports will be reviewed by Jeanne Clark, the Safety Officer, for appropriate further review by the Steering Committee and Data and Safety Monitoring Board.*

## TONIC

## LP – Symptoms of Liver Disease (Children)

**Purpose:** To obtain the patient's view of his/her liver disease symptoms.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered (age 13-17), interviewer administered (age 8-12). Clinical Coordinator must be available to answer questions and review for completeness.

**Respondent:** Patient, age 8 through 17. Patient age 13 or older should complete the form without help from family. Clinical Coordinator/parent should assist patient age 8-12.

**Instructions:** The Clinical Coordinator should complete Part A below and attach a label to each of pages 2-4. If the form is self-administered by the patient, the patient should meet with the Clinical Coordinator, be trained in the completion of the form, and then should complete pages 2-4. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should then complete section B below.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

\_\_\_\_\_ day - \_\_\_\_\_ mon - \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision:   1     p     1  

7. Study:                     TONIC 3                    

## B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the questionnaire completed:

Self-administered by patient/parent ( )

**10.** ←

Interview in English ( )

Interview with translator ( )

9. Who was the respondent (*check all that apply*):

a. Patient: ( )

b. Patient's mother or female guardian: ( )

c. Patient's father or male guardian: ( )

d. Other (*specify*): ( )

\_\_\_\_\_ specify

10. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

11. Date form reviewed:

\_\_\_\_\_ day - \_\_\_\_\_ mon - \_\_\_\_\_ year



Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

## Symptoms of Liver Disease

**Instructions:** People with liver disease may or may not have symptoms, such as pain over the liver area (under your ribs, right of your belly), feeling sick to your stomach, poor appetite (not feeling hungry), itching, or tiredness. In this questionnaire, we are trying to identify what symptoms you have, how severe they are, and how much they affect you.

*(Items 1-11 are reserved for clinical center use.)*

**12.** During the last month, how much have you been bothered by the following:

*Circle one for each symptom*

### Degree of bother

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>a.</b> Pain over liver (pain under ribs, right of your belly)	1	2	3	4	5
<b>b.</b> Nausea (sick to stomach)	1	2	3	4	5
<b>c.</b> Poor appetite (not hungry)	1	2	3	4	5
<b>d.</b> Fatigue (get tired easily)	1	2	3	4	5
<b>e.</b> Weight loss	1	2	3	4	5
<b>f.</b> Diarrhea (watery poop)	1	2	3	4	5
<b>g.</b> Muscle aches or cramps	1	2	3	4	5
<b>h.</b> Muscle weakness (feel limp)	1	2	3	4	5
<b>i.</b> Headaches	1	2	3	4	5
<b>j.</b> Easy bruising (“black and blue” marks are easy to get)	1	2	3	4	5
<b>k.</b> Itching	1	2	3	4	5
<b>l.</b> Irritability (get mad easily)	1	2	3	4	5
<b>m.</b> Depression/sadness	1	2	3	4	5
<b>n.</b> Trouble sleeping	1	2	3	4	5
<b>o.</b> Trouble concentrating (trouble with attention, thinking about one thing at a time)	1	2	3	4	5

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

*Circle one for each symptom*  
**Degree of bother**

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>p.</b> Jaundice (yellow color to skin, eyes, etc)	1	2	3	4	5
<b>q.</b> Dark urine (dark pee)	1	2	3	4	5
<b>r.</b> Swelling of ankles	1	2	3	4	5
<b>s.</b> Swelling of abdomen (belly swells up)	1	2	3	4	5

**13.** Which of the following best describes how tired you feel and how your tiredness affects you (*choose only one*):

*Circle one*

- I feel normal and am not tired (**If this is how you feel, please circle “1” and go to item number 17 – Thank you!**) ..... 1
- I feel tired some of the time, but can do what I want to do without trouble ..... 2
- I feel tired, and do what I want but with trouble ..... 3
- I feel tired and it keeps me from doing what I want to do ..... 4

**14.** How often are you bothered by being tired (*choose only one*):

- All day, every day ..... 1
- Part of the day, every day ..... 2
- At least part of several days a week ..... 3
- At least part of one day a week ..... 4
- Not as much as above ..... 5

**15.** Are you tired (*choose only one*):

- When you wake up in the morning ..... 1
- Or does it come on with the day ..... 2
- Or does it have no time pattern ..... 3

**16.** Do you feel more tired the day after you exercise or have a lot of activity:

- Yes ..... 1
- No ..... 2

<i>Affix label here</i>	
Patient ID:	___ _ _ _
Patient code:	___ _ _ _
Visit code:	___ _ _ _

17. In general, how have you felt overall in the past month:

- Very good ..... 1
- Good ..... 2
- Fair ..... 3
- Poor ..... 4
- Awful ..... 5

18. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**

## TONIC

## LR - Laboratory Results - Tests Done at Visit s1 and During Followup

**Purpose:** To record archival and current laboratory test results for tests done during both screening and followup.

**When:** Visits s1, f004, f012, f024, f036, f048, f060, f072, f084, f096, and f120.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. Complete tests as needed (repeat tests if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use a calculator if you need to convert units to match the units specified on this form. Call the DCC if you have any questions about conversions or how to record a value. If  is checked in item 63, the patient is not eligible for TONIC and the form should not be keyed. Attach copies of the laboratory reports to this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   1     r     1  

7. Study:                   TONIC 3                  

### B. Initial screening ALT

8. Is this visit s1:  
   ( Yes )                  ( No )  
   (    1 )                  (    2 )  
11. \_\_\_\_\_

9. Date of blood draw for ALT  
*(Date must be within 12 months of randomization  
 and at least 30 days apart from the ALT done at  
 the clinic for visit s2):*  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

10. Alanine aminotransferase (ALT) *(if ALT ≤ 60 U/L,  
 patient is ineligible; also, patient is ineligible if the  
 ALT done closest in time to randomization is > 400  
 U/L):*

\_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

b. Lower limit of normal: \_\_\_\_\_ U/L

### C. Hematology

*Required at visits s1, f024, f048, f072, f096,  
 and f120.*

11. Is hematology testing required at this  
 visit:  
   ( Yes )                  ( No )  
   (    1 )                  (    2 )  
17. \_\_\_\_\_

12. Date of blood draw for hematology:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

*Date must be within the required time window;  
 within 3 months of screening or in the time window  
 for the followup visit (check the patient's TONIC  
 visit time window guide).*

13. Hemoglobin: \_\_\_\_\_ g/dL

14. Hematocrit: \_\_\_\_\_ %

15. White blood cell count (WBC): \_\_\_\_\_  
 10<sup>3</sup> cells/μL or 10<sup>9</sup> cells/L

16. Platelet count: \_\_\_\_\_ , \_\_\_\_\_  
 cells/μL

**D. Metabolic panel**

*Required at all visits using the LR form (s1, f004, f012, f024, f036, f048, f060, f072, f084, f096, and f120).*

17. Date of blood draw for metabolic panel:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's TONIC visit time window guide).*

18. Sodium: \_\_\_\_\_ mEq/L

19. Potassium: \_\_\_\_\_ mEq/L

20. Chloride: \_\_\_\_\_ mEq/L

21. Bicarbonate: \_\_\_\_\_ mEq/L

22. Calcium: \_\_\_\_\_ mg/dL

23. Phosphate: \_\_\_\_\_ mg/dL

24. Blood urea nitrogen (BUN): \_\_\_\_\_ mg/dL

25. Creatinine (*if serum creatinine  $\geq$  1.5 (1.4) mg/dL and patient is male (female), patient is ineligible*): \_\_\_\_\_ mg/dL

26. Uric acid: \_\_\_\_\_ mg/dL

27. Albumin: \_\_\_\_\_ g/dL

28. Total protein: \_\_\_\_\_ g/dL

**E. Fasting lipid profile**

*Required at visits s1, f024, f048, f072, f096, and f120.*

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.*

29. Is fasting lipid profile required at this visit:

( Yes )                      ( No )  
 ( 1 )                                      ( 2 )

**31.** \_\_\_\_\_

30. Date of blood draw for fasting lipid profile:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's TONIC visit time window guide).*

a. Triglycerides: \_\_\_\_\_ mg/dL

b. Total cholesterol: \_\_\_\_\_ mg/dL

c. HDL cholesterol level: \_\_\_\_\_ mg/dL

d. LDL cholesterol level: \_\_\_\_\_ mg/dL

**F. Fasting glucose**

*Required at visits s1, f024, and f072. Also required at visits f048, f096, and f120 if the patient is diabetic.*

*Fasting is defined as nothing by mouth except water for at least 12 hours prior to blood draw.*

31. Is fasting glucose required at this visit:

( Yes )                      ( No )  
 ( 1 )                                      ( 2 )

**34.** \_\_\_\_\_

32. Date of blood draw for fasting glucose level:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Date must be within the required time window; within 3 months of screening or in the time window for the followup visit (check the patient's TONIC visit time window guide).*

33. Serum glucose (if fasting glucose 126 mg/dL or greater, patient is ineligible):

\_\_\_\_\_ mg/dL

**G. Hepatic panel**

Required at visits f004, f012, f024, f036, f048, f060, f072, f084, f096, and f120.

34. Is hepatic panel required at this visit:

(Yes) (No)  
( 1 ) ( 2 )  
**41.**

35. Date of blood draw for hepatic panel:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's TONIC visit time window guide).

36. Bilirubin (total):

\_\_\_\_\_ mg/dL

37. Bilirubin (conjugated or direct):

\_\_\_\_\_ mg/dL

38. Aspartate aminotransferase (AST)

\_\_\_\_\_ U/L

a. Upper limit of normal:

\_\_\_\_\_ U/L

b. Lower limit of normal:

\_\_\_\_\_ U/L

39. Alanine aminotransferase (ALT)

\_\_\_\_\_ U/L

a. Upper limit of normal:

\_\_\_\_\_ U/L

b. Lower limit of normal:

\_\_\_\_\_ U/L

40. Alkaline phosphatase

\_\_\_\_\_ U/L

a. Upper limit of normal:

\_\_\_\_\_ U/L

b. Lower limit of normal:

\_\_\_\_\_ U/L

**H. Vitamin B<sub>12</sub>**

Required at visits f024, f048, f072, f096, and f120.

41. Is vitamin B<sub>12</sub> required at this visit:

(Yes) (No)  
( 1 ) ( 2 )  
**44.**

42. Date of blood draw for vitamin B<sub>12</sub>:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's TONIC visit time window guide).

43. Vitamin B<sub>12</sub> (cobalamin) (if provided in pmol/L, multiply by 1.35 to convert to pg/ml):

\_\_\_\_\_ pg/mL

**I. Prothrombin time, GGT, and HbA<sub>1c</sub>**

Required at visits f048, f096, and f120.

44. Are the prothrombin time, GGT, and HbA<sub>1c</sub> tests required at this visit:

(Yes) (No)  
( 1 ) ( 2 )  
**50.**

45. Date of blood draw for prothrombin time, GGT, and HbA<sub>1c</sub>:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's TONIC visit time window guide).

46. Prothrombin time (PT):

\_\_\_\_\_ sec

47. International normalized ratio (INR):

\_\_\_\_\_

48. Gamma glutamyl transferase (GGT):

\_\_\_\_\_ U/L

49. HbA<sub>1c</sub>:

\_\_\_\_\_ %

**J. Oral glucose tolerance test**

Required at visits f048, f096, and f120.

The oral glucose tolerance test will be performed in the morning after a 12-hour overnight fasting. Baseline blood sample will be obtained for measurements of serum glucose, insulin, and C peptide. Blood sample will be obtained after 2 hours (120 minutes) for the measurement of serum glucose and insulin after oral administration of flavored glucose solution in a dose of 2 g/kg (75 g maximum).

50. Is oral glucose tolerance test (OGTT) required at this visit:

Yes ( 1 )  
 No ( 2 )

54.

No, patient is diabetic ( 3 )

54.

51. Date of blood draw for OGTT:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's TONIC visit time window guide).

52. OGTT results at baseline

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

c. Serum C peptide: \_\_\_\_\_ ng/mL

53. OGTT results at 2 hours

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

**K. Free fatty acid, leptin, and C-reactive protein**

Required at f048, f096, and f120.

54. Are free fatty acid, leptin, and C-reactive protein required at this visit:

( Yes ( 1 ) No ( 2 ) )  
 59.

55. Date of blood draw for free fatty acid, leptin and C-reactive protein (all serum):

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

Date must be in the time window for the followup visit (check the patient's TONIC visit time window guide).

56. Free fatty acid:

\_\_\_\_\_ μmol/L

57. Leptin:

\_\_\_\_\_ ng/mL

58. C-reactive protein (if result is reported as normal but below your lab's detectable level, enter the cutoff for your lab's detectable level):

\_\_\_\_\_ mg/dL

If units reported are mg/L, divide by 10 to convert to mg/dL.

**L. Pregnancy test**

Required at all study visits if applicable.

59. Is pregnancy test applicable:

( Yes ( 1 ) No ( 2 ) )  
 62.

60. Date of urine collection (or blood draw):

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

Date must be the same day as date of visit.

61. Pregnancy test results (if pregnancy test is positive at s1, patient is ineligible):

Positive ( 1 )  
 Negative ( 2 )

**M. Eligibility check**

62. Is this the s1 visit:

( Yes )      ( No )  
( 1 )      ( 2 )  
64.

63. Was the patient found to be ineligible based on ALT (item 10), creatinine (item 25), fasting serum glucose (item 33), or pregnancy test (item 61):

( Yes )      ( No )  
( 1 )      ( 2 )  
  **Elig**

**N. Administrative information**

64. Study Physician PIN: \_\_\_\_\_

65. Study Physician signature:  
\_\_\_\_\_

66. Clinical Coordinator PIN: \_\_\_\_\_

67. Clinical Coordinator signature:  
\_\_\_\_\_

68. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day                      mon                      year





**C. Autoantibody studies**

9. Date of blood draw for autoantibody tests:

\_\_\_\_ day    \_\_\_\_ mon    \_\_\_\_ year

Repeat if date is greater than 5 years prior to screening.

10. Antinuclear antibody (ANA):


Positive ( \* 1 )  
 Negative ( 2 )

12.

a. If positive, ANA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

11. Is ANA titration greater than 1:80

Yes ( \* 1 )    No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for autoimmune liver disease.

12. Antismooth muscle antibody (ASMA):

Positive ( \* 1 )  
 Negative ( 2 )

13.

a. If positive, ASMA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

13. Antimitochondrial antibody (AMA):

Positive ( \* 1 )  
 Negative ( 2 )

15.


Not available ( 3 )

15.

a. If positive, AMA: 1/ \_\_\_\_\_

\* If results are given as units, record as "n" and key the actual result in the General Comments.

14. Is AMA titration greater than 1:80

Yes ( \* 1 )    No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for primary biliary cirrhosis.

**D. Ceruloplasmin**

15. Date of blood draw for ceruloplasmin:


\_\_\_\_ day    \_\_\_\_ mon    \_\_\_\_ year

Repeat if date is greater than 10 years prior to screening.

16. Ceruloplasmin \_\_\_\_\_ mg/dL

a. Lower limit of normal: \_\_\_\_\_ mg/dL

b. Is ceruloplasmin below the lower limit of normal:

Yes ( \* 1 )    No ( 2 )  


\* Check Liver Biopsy Histology Findings Form for Wilson's Disease.

**E. Alpha-1 antitrypsin**

17. Date of blood draw for alpha-1 antitrypsin (A1AT):

\_\_\_\_ day    \_\_\_\_ mon    \_\_\_\_ year


Repeat if date is greater than 10 years prior to screening.

18. Alpha-1 antitrypsin (A1AT)

\_\_\_\_\_ mg/dL

a. Lower limit of normal: \_\_\_\_\_ mg/dL

b. A1AT deficiency (physician judgment):

Yes ( 1 )    No ( 2 )  


**F. Iron**

19. Date of blood draw for hemochromatosis screening:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

*Repeat if date is greater than 5 years prior to screening.*

a. Iron: \_\_\_\_\_  
μg/dL

b. Total Iron Binding Capacity: \_\_\_\_\_  
μg/dL

c. Ferritin: \_\_\_\_\_  
ng/mL

20. Is hepatic iron index available:

( Yes ) ( No )  
( 1 ) ( 2 )  
22.

21. Hepatic iron index: \_\_\_\_\_  
•  
μmol/g/year

**G. Administrative information**

22. Study Physician PIN: \_\_\_\_\_

23. Study Physician signature:  
\_\_\_\_\_

24. Clinic Coordinator PIN: \_\_\_\_\_

25. Clinic Coordinator signature:  
\_\_\_\_\_

26. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

## TONIC

## LU - Laboratory Results - Tests Required at Visit s2

**Purpose:** To record archival and current laboratory test results for tests required at visit s2.

**When:** Visit s2.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review except for hepatic panel which must be done at the TONIC clinical center on or after the date when screening started. Note that the ALT recorded for visit s1 and this hepatic panel (visit s2) must have been done at least 30 days apart. The hepatic panel done at visit s2 may pre-date the ALT recorded on the visit s1 LR form so long as the visit s2 hepatic panel is done on or after the date screening started. Complete tests as needed (repeat tests if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use a calculator if you need to convert units to match the units specified on this form. Call the DCC if you have any questions about conversions or how to record a value. If  is checked in any item, the patient is not eligible for TONIC and the form should not be keyed. Attach copies of the laboratory reports to this form.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision: 1 u 1

7. Study: TONIC 3

**B. Hepatic panel**

*This hepatic panel must be done at TONIC clinical center on or after the date when screening started, and the ALT recorded in the s1 LR form and this hepatic panel (visit s2) must be at least 30 days apart, but this hepatic panel may pre-date the ALT recorded on the visit s1 LR form.*

8. Date of blood draw for hepatic panel:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

9. Bilirubin (total): \_\_\_\_\_  
 mg/dL

10. Bilirubin (conjugated or direct): \_\_\_\_\_  
 mg/dL

**11. Aspartate aminotransferase (AST)**

\_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_  
 U/L

**12. Alanine aminotransferase (ALT)** (if  $ALT \leq 60$  U/L, patient is ineligible; patient is also ineligible if the ALT done closest in time to randomization is  $> 400$  U/L)

\_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_  
 U/L

**13. Alkaline phosphatase** \_\_\_\_\_  
 U/L

a. Upper limit of normal: \_\_\_\_\_  
 U/L

b. Lower limit of normal: \_\_\_\_\_  
 U/L

**C. Vitamin B<sub>12</sub>, free fatty acid, leptin, and C-reactive protein**

14. Date of blood draw for vitamin B<sub>12</sub>, free fatty acid, leptin, and C-reactive protein (all on serum):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within 3 months of screening.*

15. Vitamin B<sub>12</sub> (if provided in pmol/L, multiply by 1.35 to convert to pg/ml):

\_\_\_\_\_ pg/mL

16. Free fatty acid:

\_\_\_\_\_ μmol/L

17. Leptin:

\_\_\_\_\_ ng/mL

18. C-reactive protein (if result is reported as normal but below your lab's detectable level, enter the cutoff for your lab's detectable level):

\_\_\_\_\_ mg/dL

*If units reported are mg/L, divide by 10 to convert to mg/dL.*

**D. Prothrombin time, GGT and HbA1c**

19. Date of blood draw for prothrombin time, GGT, and HbA1c:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within 3 months of screening.*

20. Prothrombin time (PT):

\_\_\_\_\_ sec

21. International normalized ratio (INR):

\_\_\_\_\_

22. Gamma glutamyl transferase (GGT):

\_\_\_\_\_ U/L

23. HbA1c:

\_\_\_\_\_ %

**E. Oral glucose tolerance test**

*The oral glucose tolerance test will be performed in the morning after a 12-hour overnight fast. Baseline blood sample will be obtained for measurements of serum glucose, insulin, and C peptide. Blood samples will be obtained at 2 hours (120 minutes) for the measurement of serum glucose and insulin after oral administration of flavored glucose solution in a dose of 2 g/kg (75 g maximum).*

24. Date of blood draw for OGTT:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within 3 months of screening.*

25. OGTT results at baseline

a. Serum glucose (if fasting glucose 126 mg/dL or greater, patient is ineligible):

\_\_\_\_\_ mg/dL

b. Serum insulin:

\_\_\_\_\_ μU/mL

c. Serum C peptide:

\_\_\_\_\_ ng/mL

26. OGTT results at 2 hours (if 2-hour glucose ≥ 200 mg/dL, patient is ineligible)

a. Serum glucose:

\_\_\_\_\_ mg/dL

b. Serum insulin:

\_\_\_\_\_ μU/mL

**F. Pregnancy test**

27. Is pregnancy test applicable:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
**30.**

28. Date of urine collection (or blood draw):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be the same day as date of visit.*

29. Pregnancy test results (if pregnancy test is positive at s1 or s2, patient is ineligible):

Positive ( 1 )  
 Negative ( 2 )

**G. Eligibility check**

30. Was the patient found to be ineligible based on ALT (item 12), fasting serum glucose (item 25a), 2-hour glucose (item 26a), or pregnancy test (item 29):

( Yes ) ( No )  
( 1 ) ( 2 )  
 **Elig**

**H. Administrative information**

31. Study Physician PIN: \_\_\_\_\_

32. Study Physician signature:  
\_\_\_\_\_

33. Clinical Coordinator PIN: \_\_\_\_\_

34. Clinical Coordinator signature:  
\_\_\_\_\_

35. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## TONIC

## MA - Modifiable Activity Questionnaire

**Purpose:** To obtain the patient's physical activity.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Interview administered (8-12 yrs) or self-administered (13-17 yrs). Parents may assist with completion, if needed. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient.

**Instructions:** The Clinical Coordinator should complete Part A below and attach a label to each of pages 2-3. The patient should meet with the interviewer, be trained in completion of the form, and then should complete pages 2-3. If needed, the Clinical Coordinator may administer the interview to the patient. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator should complete section B below.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (date patient completed the form):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  month                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   m     a     1  

7. Study: TONIC   3  

## B. Administrative information

(To be completed by the Clinical Coordinator after survey is completed).

8. How was the questionnaire completed:  
 Self-administered by patient/parent ( )   1  

Interview in English ( )   2  

Interview with translator ( )   3  

9. Who was the respondent (*check all that apply*)  
 a. Patient: ( )   1    
 b. Patient's mother or female guardian: ( )   1    
 c. Patient's father or male guardian: ( )   1    
 d. Other, *specify*: ( )   1  

## 10. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

## 11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  month                  year

Affix Label Here
Patient ID: _____
Patient code: _____
Visit code: _____

## Modifiable Activity Questionnaire

*(Items 1-11 are reserved for clinic use.)*

12. How many times in the past 14 days have you done at least 20 minutes of exercise hard enough to make you breathe heavily and make your heart beat fast? (Hard exercise includes, for example, playing basketball, jogging, or fast bicycling; include time in physical education class)?

**Circle one**

- None ..... 1
- 1 to 2 days ..... 2
- 3 to 5 days ..... 3
- 6 to 8 days ..... 4
- 9 or more days ..... 5

13. How many times in the past 14 days have you done at least 20 minutes of light exercise that was not enough to make you breathe heavily and make your heart beat fast? (Light exercise includes playing basketball, walking or slow bicycling; include time in physical education class)?

**Circle one**

- None ..... 1
- 1 to 2 days ..... 2
- 3 to 5 days ..... 3
- 6 to 8 days ..... 4
- 9 or more days ..... 5

14. During a normal week how many hours a day do you watch television and videos, or play computer or video games, or use the computer for other activities before or after school?

**Circle one**

- None ..... 1
- 1 hour or less ..... 2
- 2 to 3 hours ..... 3
- 4 to 5 hours ..... 4
- 6 or more hours ..... 5

15. During the past 12 months, how many team or individual sports or activities did you participate in on a competitive level, such as varsity or junior varsity sports, intramurals, or out-of-school programs?

**Circle one**

- None ..... 1
- 1 activity ..... 2
- 2 activities ..... 3
- 3 activities ..... 4
- 4 or more activities ..... 5

What activities did you compete in?

---



---



---



Affix Label Here  
 Patient ID: \_\_\_\_\_  
 Patient code: \_\_\_\_\_  
 Visit code: \_\_\_\_\_

### PAST YEAR LEISURE-TIME PHYSICAL ACTIVITY

16. Check all activities that you did at least 10 times in the **PAST YEAR**. Do not include time spent in school physical education classes. Include all sport teams that you participated in during the last year.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> 01. Aerobics                         | <input type="checkbox"/> 02. Band/Drill Team | <input type="checkbox"/> 03. Baseball             |
| <input type="checkbox"/> 04. Basketball                       | <input type="checkbox"/> 05. Bicycling       | <input type="checkbox"/> 06. Bowling              |
| <input type="checkbox"/> 07. Cheerleading                     | <input type="checkbox"/> 08. Dance Class     | <input type="checkbox"/> 09. Football             |
| <input type="checkbox"/> 10. Garden/Yard Work                 | <input type="checkbox"/> 11. Gymnastics      | <input type="checkbox"/> 12. Hiking               |
| <input type="checkbox"/> 13. Ice Skating                      | <input type="checkbox"/> 14. Roller Skating  | <input type="checkbox"/> 15. Running and Exercise |
| <input type="checkbox"/> 16. Skateboarding                    | <input type="checkbox"/> 17. Snow Skiing     | <input type="checkbox"/> 18. Soccer               |
| <input type="checkbox"/> 19. Softball                         | <input type="checkbox"/> 20. Street Hockey   | <input type="checkbox"/> 21. Swimming             |
| <input type="checkbox"/> 22. Tennis                           | <input type="checkbox"/> 23. Volleyball      | <input type="checkbox"/> 24. Water Skiing         |
| <input type="checkbox"/> 25. Weight Training<br>(Competitive) | <input type="checkbox"/> 26. Wrestling       | <input type="checkbox"/> 27. Others: _____        |

List each activity that you checked above in the "Activity" box below.  
 Check the months you did each activity and then estimate the amount of time spent in each activity.

Activity Code #	Activity	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	Months per Year	Days per Week	Minutes per Day
___														___	___	___
___														___	___	___
___														___	___	___
___														___	___	___
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___														___	___	___
___														___	___	___

17. Today's date: \_\_\_\_\_

## TONIC

## MR - MRI Report

**Purpose:** To record liver imaging study results.

**When:** Visits s2 and f096, if needed.

**Administered by:** Clinical Coordinator.

**Instructions:** Upper abdominal MRI is optional. Complete for an upper abdominal MRI done in the year prior to starting screening for TONIC or during screening for TONIC (s2 visit) or done during the f096 window (f096 visit). Answer the items based on review of the imaging report; the Study Physician must review and approve the findings recorded on this form. Attach a copy of the original MR report to this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision: m r 1

7. Study: TONIC 3

### B. Upper abdominal MRI

8. Date of upper abdominal MRI:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

9. Findings suggestive of NAFLD, cryptogenic cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( )
- b. Cirrhosis: ( )
- c. Hepatomegaly: ( )
- d. Hepatic mass: ( )
- e. Hepatic hemangioma: ( )
- f. Hepatic cyst: ( )
- g. Intrahepatic biliary dilatation: ( )
- h. Extrahepatic biliary dilatation: ( )
- i. Splenomegaly: ( )
- j. Ascites: ( )

k. Other features of portal hypertension (*specify*): ( )

l. Other abnormality (*specify*): ( )

m. None of the above: ( )

### C. Administrative information

10. Study Physician PIN: \_\_\_\_\_

11. Study Physician signature: \_\_\_\_\_

12. Clinical Coordinator PIN: \_\_\_\_\_

13. Clinical Coordinator signature: \_\_\_\_\_

14. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## TONIC

## MV - Missed or Incomplete Visit

**Purpose:** Record reason(s) for missed or incomplete visit.

**When:** At the close of a visit window for any missed followup visit or for any followup visit with specific forms not completed. Use visit code f004, f012, f024, f036, f048, f060, f072, f084, f096 and f120.

**Respondent:** None.

**Completed by:** Clinical Coordinator.

**Instructions:** Complete this form when a patient fails to complete a visit or specific visit procedures (resulting in missing forms) within the time window for the visit.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

day                      mon                      year

5. Visit code: f \_\_\_\_\_

6. Form & revision: m v 1

7. Study: TONIC 3

### 10. Steps taken to avoid missing the visit (check all that apply)

a. Telephoned patient: (  )

b. Mailed reminder card: (  )

c. Other (specify): (  )

\_\_\_\_\_ specify

14. \_\_\_\_\_

### B. Reason for completion of this form

8. Was the entire visit missed:

(  )<sup>Yes</sup>                      (  )<sup>No</sup>

11. \_\_\_\_\_

### C. Missed visit information

9. Reason for missed visit (check all that apply)

a. Patient was ill: (  )

b. Patient was temporarily away from area: (  )

c. Patient refused to return: (  )

d. Patient has permanently moved from the area: (  )

e. Unable to contact patient: (  )

f. Other (specify): (  )

\_\_\_\_\_ specify

**D. Missed form information**

- 11. Check form(s) not completed**  
*(check required forms that were missed)*
- a. Food Questionnaire Documentation (BD): (  )
- b. Blood Processing for Plasma and Serum (BP): (  )
- c. DEXA Scan Report (DX): (  )
- d. Followup Medical History (HI): (  )
- e. Symptoms of Liver Disease (Children) (LP): (  )
- f. Laboratory Results - Tests Done During Screening and Followup (LR): (  )
- g. Modifiable Activity Questionnaire (MA): (  )
- h. MRI Report (MR): (  )
- i. Physical Examination (PE): (  )
- j. Focused Physical Examination (PF): (  )
- k. Pediatric Quality of Life: Parent of adolescent age 13-17 (PQ): (  )
- l. Pediatric Quality of Life: Parent of child age 8-12 (PR): (  )
- m. Pediatric Quality of Life: Child age 8-12 (PW): (  )
- n. Pediatric Quality of Life: Adolescent age 13-17 (PY): (  )
- o. Study Drug Dispensing and Return (RD): (  )
- p. Liver Biopsy Materials Documentation (SD): (  )
- q. Other *(specify)*: (  )

\_\_\_\_\_ specify

- 12. Reason form(s) not completed**  
*(check all that apply)*
- a. Patient was ill: (  )
- b. Patient refused procedure: (  )
- c. Parent refused procedure: (  )
- d. Procedure forgotten: (  )
- e. Other *(specify)*: (  )

\_\_\_\_\_ specify

- 13. Attempts made to complete form(s)**  
*(check all that apply)*
- a. Attempted to reschedule procedure: (  )
- b. Attempted to collect interview data by phone from patient/family: (  )
- c. Attempted to gain patient/parent cooperation: (  )
- d. Other *(specify)*: (  )

\_\_\_\_\_ specify

**E. Administrative information**

**14. Clinical Coordinator PIN:** \_\_\_\_\_

**15. Clinical Coordinator signature:**  
\_\_\_\_\_

**16. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



11. Hip (*standing, at fullest part of the hips; repeat hip measurements until you have two measurements within 4 in (10.2 cm) of each other*)

a. Circumference, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

b. Circumference, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

c. Units:

- Inches ( 1 )  
Centimeters ( 2 )

12. Triceps (*right arm, with elbow extended and arm relaxed; repeat skin fold measurements until you have two within 10 mm of each other; repeat mid-upper arm circumference until you have two within 1.5 in (3.8 cm) of each other*)

a. Skin fold, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
mm

b. Skin fold, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
mm

c. Mid-upper arm circumference, 1st measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

d. Mid-upper arm circumference, 2nd measurement:

\_\_\_\_\_ ● \_\_\_\_\_  
arm circumference

e. Units for arm circumference:

- Inches ( 1 )  
Centimeters ( 2 )

13. Temperature (*Oral*)

a. Degrees:

\_\_\_\_\_ ● \_\_\_\_\_

b. Scale:

- Fahrenheit ( 1 )  
Centigrade ( 2 )

14. Blood pressure

a. Systolic:

\_\_\_\_\_ mmHg

b. Diastolic:

\_\_\_\_\_ mmHg

15. Resting radial pulse:

\_\_\_\_\_ beats/minute

16. Respiratory rate:

\_\_\_\_\_ breaths/minute

**C. Examination findings**

17. Skin:

- Normal ( 1 )  
Abnormal **20.** ( 2 )

18. Acanthosis nigricans (*check only one*):

- Absent (*not detectable on close inspection*) ( 0 )  
Present (*clearly present on close inspection, not visible to casual observer, extent not measurable*) ( 1 )  
Mild (*limited to base of skull, not extending to lateral margins of neck, < 3 inches in breadth*) ( 2 )  
Moderate (*extending to lateral margins of neck, 3-6 inches in breadth, not visible from patient's front*) ( 3 )  
Severe (*extending anteriorly, > 6 inches in breadth, visible from front*) ( 4 )

19. Other skin abnormality (*check all that apply*)

- a. Jaundice: ( 1 )  
b. Palmar erythema: ( 1 )  
c. Spider angiomata: ( 1 )  
d. Other (*specify*): ( 1 )  
\_\_\_\_\_ e. None of the above: ( 1 )

20. Head, eyes, ears, nose, throat:

- Normal ( 1 )  
Abnormal **22.** ( 2 )

21. Abnormality of the head, eyes, nose, throat (*check all that apply*)

- a. Jaundice: ( 1 )  
b. Other (*specify*): ( 1 )

\_\_\_\_\_ specify

**22. Neck:**  
 Normal ( 1 )  
 Abnormal **23.** ( 2 )  
 \_\_\_\_\_  
 specify abnormality

**23. Lymphatic:**  
 Normal ( 1 )  
 Abnormal **24.** ( 2 )  
 \_\_\_\_\_  
 specify abnormality

**24. Chest and lungs:**  
 Normal ( 1 )  
 Abnormal **25.** ( 2 )  
 \_\_\_\_\_  
 specify

**25. Heart:**  
 Normal ( 1 )  
 Abnormal **26.** ( 2 )  
 \_\_\_\_\_  
 specify abnormality

**26. Abdomen:**  
 Normal ( 1 )  
 Abnormal **28.** ( 2 )

**27. Abdomen abnormality**  
*(check all that apply)*  
 a. Ascites: ( 1 )  
 b. Obese: ( 1 )  
 c. Other (specify): ( 1 )  
 \_\_\_\_\_  
 specify

**28. Liver and spleen:**  
 Normal ( 1 )  
 Abnormal **30.** ( 2 )

**29. Abnormality of liver or spleen** *(check all that apply)*  
 a. Hepatomegaly: ( 1 )  
*(if checked, span from right midclavicular line):*  
 \_\_\_\_\_  
 cm

b. Splenomegaly: ( 1 )  
 c. Other (specify): ( 1 )  
 \_\_\_\_\_  
 specify

**30. Extremities:**  
 Not performed ( 0 )  
 Normal **32.** ( 1 )  
 Abnormal **32.** ( 2 )

**31. Abnormality of the extremities**  
*(check all that apply)*  
 a. Contractures: ( 1 )  
 b. Muscle wasting: ( 1 )  
 c. Palmar erythema: ( 1 )  
 d. Pedal edema: ( 1 )  
 e. Other (specify): ( 1 )  
 \_\_\_\_\_  
 specify

**32. Genitourinary/pelvis:**  
 Not performed ( 0 )  
 Normal **33.** ( 1 )  
 Abnormal **33.** ( 2 )  
 \_\_\_\_\_  
 specify

**33. Nervous system:**  
 Not performed ( 0 )  
 Normal **35.** ( 1 )  
 Abnormal **35.** ( 2 )

34. Abnormality of the nervous system  
(check all that apply):

- a. Mental status abnormal: ( 1 )
- b. Asterixis: ( 1 )
- c. Other (specify): ( 1 )

\_\_\_\_\_ specify

**D. Tanner Staging**

35. Is Tanner staging required for this participant (Note: Required at screening visit.) (check only one):

- Yes, participant has not reached full sexual maturity or is 17 years old or younger: ( 1 )
  - No, participant is over 17 years old or had reached full sexual maturity (Tanner stage 5 on all parameters at screening or for 2 consecutive visits) ( 2 )
44.

36. Is the patient female: ( Yes 1 ) ( No 2 )

40.

**Male Tanner Staging**

37. Genital stage: \_\_\_\_\_  
1-5

38. Testicular volume (smallest of right and left): \_\_\_\_\_  
cc

39. Pubic hair stage: \_\_\_\_\_  
1-5

44.

**Female Tanner Staging**

40. Breast stage: \_\_\_\_\_  
1-5

41. Pubic hair stage: \_\_\_\_\_  
1-5

42. Has menarche occurred: ( Yes 1 ) ( No 2 )

44.

43. What was the participant's age at menarche: \_\_\_\_\_  
age in years

**E. Ability to swallow study medication**

(At the randomization visit the Study Physician/Clinical Coordinator will be asked to provide assurance that the patient is able to swallow the TONIC study medication; if needed, you could ask the patient to swallow a capsule from the placebo metformin provided by the DCC).

44. Was the patient able to swallow a placebo metformin capsule (check only one):

- Yes, patient was able to swallow capsule ( 1 )
- No, patient was unable to swallow the capsule ( 2 )

44.

Did not ask for a demonstration at this time ( 3 )

**F. Administrative information**

45. Study Physician PIN: \_\_\_\_\_

46. Study Physician signature: \_\_\_\_\_

47. Clinical Coordinator PIN: \_\_\_\_\_

48. Clinical Coordinator signature: \_\_\_\_\_

49. Date form reviewed: \_\_\_\_\_  
day mon year





14. Resting radial pulse: \_\_\_\_\_  
beats/minute

15. Respiratory rate: \_\_\_\_\_  
breaths/minute

**C. Liver signs**

16. Liver and spleen:  
Normal ( )  
Abnormal ( )

18.

17. Abnormality (check all that apply)  
a. Ascites: ( )  
b. Asterixis: ( )  
c. Contractures: ( )  
d. Hepatomegaly: ( )

If Yes, span from right midclavicular line:

\_\_\_\_\_ • \_\_\_\_\_  
cm

e. Jaundice: ( )  
f. Muscle wasting: ( )  
g. Palmar erythema: ( )  
h. Pedal edema: ( )  
i. Spider angiomata: ( )  
j. Splenomegaly: ( )  
k. Other, (specify): ( )

\_\_\_\_\_ specify abnormality

**D. Administrative information**

18. Study Physician ID: \_\_\_\_\_

19. Study Physician signature:  
\_\_\_\_\_

20. Clinical Coordinator ID: \_\_\_\_\_

21. Clinical Coordinator signature:  
\_\_\_\_\_

22. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## TONIC

**PQ – Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of teens, age 13-17.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #8, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p   q   1
7. Study: TONIC  3

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**PQ - Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your teen had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other teens:	0	1	2	3	4
<b>27.</b> Not able to do things that other teens his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up with other teens:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## TONIC

**PR – Pediatric Quality of Life:  
Parent Report for Children (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of child, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #8, Instructions for Pediatric Quality of Life (Forms PQ, PR, PS, and PT) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p r 1
7. Study:  TONIC 3

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## PR - Pediatric Quality of Life: Parent Report for Children (Age 8-12)

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your child had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other children:	0	1	2	3	4
<b>25.</b> Other kids not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other children:	0	1	2	3	4
<b>27.</b> Not able to do things that other children his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up when playing with other children:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**



## TONIC

**PW – Pediatric Quality of Life:  
Child Report (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s2, f048, f096, and f120.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The patient should meet with the Clinical Coordinator and should be trained in completion of the form. Give the patient Flash Card #7, Instructions for Pediatric Quality of Life (Forms PW and PY) and review the instructions with the patient. The patient should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   p     w     1
7. Study:                     TONIC 3

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

## PW - Pediatric Quality of Life: Child Report (Age 8-12)

In the past **ONE month**, how much of a **problem** has this been for you...

ABOUT MY HEALTH AND ACTIVITIES <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
11. It is hard for me to walk more than one block:	0	1	2	3	4
12. It is hard for me to run:	0	1	2	3	4
13. It is hard for me to do sports activity or exercise:	0	1	2	3	4
14. It is hard for me to lift something heavy:	0	1	2	3	4
15. It is hard for me to take a bath or shower by myself:	0	1	2	3	4
16. It is hard for me to do chores around the house:	0	1	2	3	4
17. I hurt or ache:	0	1	2	3	4
18. I have low energy:	0	1	2	3	4

ABOUT MY FEELINGS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
19. I feel afraid or scared:	0	1	2	3	4
20. I feel sad or blue:	0	1	2	3	4
21. I feel angry:	0	1	2	3	4
22. I have trouble sleeping:	0	1	2	3	4
23. I worry about what will happen to me:	0	1	2	3	4

HOW I GET ALONG WITH OTHERS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
24. I have trouble getting along with other kids:	0	1	2	3	4
25. Other kids do not want to be my friend:	0	1	2	3	4
26. Other kids tease me:	0	1	2	3	4
27. I cannot do things that other kids my age can do:	0	1	2	3	4
28. It is hard to keep up when I play with other kids:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

<b>ABOUT SCHOOL</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**



**PY - Pediatric Quality of Life:  
Adolescent (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has this been for you...

<b>ABOUT MY HEALTH AND ACTIVITIES</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> It is hard for me to walk more than one block:	0	1	2	3	4
<b>12.</b> It is hard for me to run:	0	1	2	3	4
<b>13.</b> It is hard for me to do sports activity or exercise:	0	1	2	3	4
<b>14.</b> It is hard for me to lift something heavy:	0	1	2	3	4
<b>15.</b> It is hard for me to take a bath or shower by myself:	0	1	2	3	4
<b>16.</b> It is hard for me to do chores around the house:	0	1	2	3	4
<b>17.</b> I hurt or ache:	0	1	2	3	4
<b>18.</b> I have low energy:	0	1	2	3	4

<b>ABOUT MY FEELINGS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> I feel afraid or scared:	0	1	2	3	4
<b>20.</b> I feel sad or blue:	0	1	2	3	4
<b>21.</b> I feel angry:	0	1	2	3	4
<b>22.</b> I have trouble sleeping:	0	1	2	3	4
<b>23.</b> I worry about what will happen to me:	0	1	2	3	4

<b>HOW I GET ALONG WITH OTHERS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> I have trouble getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens do not want to be my friend:	0	1	2	3	4
<b>26.</b> Other teens tease me:	0	1	2	3	4
<b>27.</b> I cannot do things that other teens my age can do:	0	1	2	3	4
<b>28.</b> It is hard to keep up with my peers:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

<b>ABOUT SCHOOL</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

## TONIC

## RC - Rescreen in TONIC

**Purpose:** To rescreen a patient who was previously found to be ineligible for TONIC due to a temporary ineligibility. This form must be the first form completed and keyed for the patient for this screening cycle (the date in item 4 of this form will be the date that the 112-day screening window is reckoned from). The original RG form completed for the patient must remain in the data system. New screening phase tube and questionnaire labels will be available for printing upon keying this form.

**When:** Visit code s1.

**Administered by:** Clinical Coordinator.

**Respondent:** None.

**Instructions:** Complete this form for a patient who was previously found to be ineligible for TONIC due to a temporary ineligibility and who now wants to rescreen for TONIC. In general, the patient must complete all TONIC screening data collection anew and all previously keyed TONIC screening forms should be deleted from the data system except the RG and possibly the BC and CG forms. Update sections B, C, D, and G of the RG form and update the keyed record (you cannot delete the RG form). If blood was collected successfully for the Genetics Repository, a new sample does not need to be collected and the previously completed BC and CG forms may remain unchanged in the data system. Plasma and serum must be collected anew. If the same liver biopsy is being used to satisfy eligibility now and slides were sent to the DCC, additional slides do not need to be sent. The pathologist should rescore the biopsy and new SD and HF forms should be completed transcribing the slide numbers as needed.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: s 1 \_\_\_\_\_

6. Form & revision: r c 1

7. Study: TONIC 3

**B. TONIC participation**

8. Date in item 4 of original TONIC RG form:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**C. Administrative information**

9. Clinical Coordinator PIN: \_\_\_\_\_

10. Clinical Coordinator signature:  
 \_\_\_\_\_

11. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## TONIC

## RD – Study Drug Dispensing and Return

**Purpose:** To record dispensing and return of study drugs.

**When:** Visits rz, f004, f012, f024, f036, f048, f060, f072, f084, and f096. Use visit code “n” if drugs are dispensed or returned at a time other than a regular study visit or if a second form is needed at a visit to document returned study drugs.

**Administered by:** Pharmacist or Clinical Coordinator, reviewed by Study Physician.

**Instructions:** This form documents dispensing of study drug, return of unused study drug, and return of empty study drug bottles. This form is required at visit rz and every scheduled followup visit thereafter except visit f120. It may be used at unscheduled visits as needed (use visit code n).

Study drugs are dispensed in the quantities specified below:

Visit	No. of TM series bottles	No. of TE series bottles	Comment
rz	2	2	12 week supply
f012	2	2	12 week supply
f024	2	2	12 week supply
f036	2	2	12 week supply
f048	2	2	12 week supply
f060	2	2	12 week supply
f072	2	2	12 week supply
f084	2	2	12 week supply

The patient should be queried about return of empty study drug bottles at all study visits; return of unused study drug is required at the visits at which study drug is dispensed. Each time a patient returns a used study drug bottle to the clinical center, the pharmacist or the clinical coordinator should count and record the remaining number of capsules or softgels in study drug bottles. This form allows recording of the return of up to eight bottles (four TM series and four TE series). If more than four bottles of either series are returned at a time, complete a second form (using visit code “n”) to record the information for the remaining bottles.

## A. Center, patient, and visit identification

- Center ID: \_\_\_\_\_
- Patient ID: \_\_\_\_\_
- Patient code: \_\_\_\_\_
- Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
- Visit code: \_\_\_\_\_
- Form & revision:   r     d     1
- Study: TONIC   3

## B. Study drug dispensing

- Is this a second form for returning additional drug bottles at this visit: Yes ( ) No ( )  
 16.
- Will study drug be dispensed today: Yes ( ) No ( )  
 11.
- Reason for not dispensing study drug (check all that apply)
  - Not a scheduled study drug dispensing visit: ( )
  - Study physician-directed treatment interruption/termination: ( )
  - Unwillingness of the participant to take study drugs: ( )
  - Other (specify): ( )

\_\_\_\_\_  
specify

16.



**TM series**

**Bottle tear-off label**

11.

*Affix label here*

12.

*Affix label here*

**TE series**

13.

*Affix label here*

14.

*Affix label here*

15. How were the study drugs dispensed to the patient (*check only one*) :

- In person (  1 )  
 Mail (  2 )  
 Other (*specify*) (  3 )

\_\_\_\_\_ specify

**C. Study drug return**

16. Were any TM series bottles returned at this visit:

- Yes (  1 )      No (  2 )

**22.** ←

17. Number of TM series bottles returned (*if more than 4 bottles returned, complete a second RD form*):

\_\_\_\_\_  
(1-4)

**a.**  
**Bottle No.**

**b.**  
**Number of capsules returned**

18. TM \_\_\_\_\_ (00-100)

19. TM \_\_\_\_\_ (00-100)

20. TM \_\_\_\_\_ (00-100)

21. TM \_\_\_\_\_ (00-100)

22. Were any TE series bottles returned at this visit:

Yes                      No  
 (    )                      (    )

**28.** ←

23. Number of TE series bottles returned (*if more than 4 bottles returned, complete a second RD form*):

\_\_\_\_\_  
 (1-4)

	a. Bottle No.	b. Number of softgels returned
24.	TE _____	_____ (00-100)
25.	TE _____	_____ (00-100)
26.	TE _____	_____ (00-100)
27.	TE _____	_____ (00-100)

**D. Remaining bottles**

28. Are any additional bottles being returned:

Yes                      No  
 ( \* )                      (    )

*\*If yes, complete a second RD form using visit code "n."*

**E. Administrative information**

29. Clinical Coordinator PIN: \_\_\_\_\_

30. Clinical Coordinator signature:  
 \_\_\_\_\_

31. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year



**16.** What describes the patient’s Hispanic, Latino, or Latina origin best (*show the patient/guardian Flash Card #1 and ask the respondent to pick the subcategory that best describes the patient’s Hispanic, Latino, or Latina origin; check only one*):

- Mexican ( 1 )
- Puerto Rican ( 2 )
- Cuban ( 3 )
- South or Central American ( 4 )
- Other Spanish culture or origin ( 5 )

\_\_\_\_\_ specify

**17.** Racial category (*show the patient/guardian Flash Card #2 and ask the respondent to pick the category or categories that describe the patient best; check all that apply*)

- a. American Indian or Alaska Native: ( 1 )
- b. Asian: ( 1 )
- c. Black, African American, Negro, or Haitian: ( 1 )
- d. Native Hawaiian or other Pacific Islander: ( 1 )
- e. White: ( 1 )
- f. Patient refused: ( 1 )

**18.** In what country was the patient born (*check only one*):

- Continental US (includes Alaska) or Hawaii ( 1 )
- Other, (*specify*): ( 2 )

\_\_\_\_\_ specify

**19.** Patient’s current grade level in school (or home school) (*show the patient/guardian Flash Card #3 and ask the respondent to pick the category that describes the patient best; if summer time, report grade entering in the fall; check only one*):

- Grades 1 to 5 ( 1 )
- Grades 6-8 ( 2 )
- Grades 9-12 ( 3 )

**20.** Current age of patient’s female guardian (*mother, stepmother, or other*) (*show patient/guardian Flash Card #4; check only one*):

- Not applicable (mother is deceased or patient has no stepmother or female guardian) ( 0 )
- 19 or younger ( 1 )
- 20-29 years ( 2 )
- 30-39 years ( 3 )
- 40-49 years ( 4 )
- 50-59 years ( 5 )
- 60 years or older ( 6 )

**21.** Highest educational level achieved by patient’s female guardian (*mother, stepmother, or other*) (*show patient/guardian Flash Card #5; if education of female guardian is unknown, record as “n”; check only one*):

- Never attended school ( 0 )
- Did not complete high school ( 1 )
- Completed high school ( 2 )
- Some college or post high school education or training ( 3 )
- Bachelor’s degree or higher ( 4 )

**22.** Current age of patient’s male guardian (*father, stepfather, or other*) (*show patient/guardian Flash Card #4; check only one*):

- Not applicable (father is deceased or patient has no stepfather or male guardian) ( 0 )
- 19 or younger ( 1 )
- 20-29 years ( 2 )
- 30-39 years ( 3 )
- 40-49 years ( 4 )
- 50-59 years ( 5 )
- 60 years or older ( 6 )

**23.** Highest educational level achieved by patient’s male guardian (*father, stepfather, or other*) (*show patient/guardian Flash Card #5; if education of male guardian is unknown, record as “n”; check only one*):

- Never attended school ( 0 )
- Did not complete high school ( 1 )
- Completed high school ( 2 )
- Some college or post high school education or training ( 3 )
- Bachelor’s degree or higher ( 4 )

24. Combined annual income before taxes of all members of patient's household (show guardian Flash Card #6 and ask respondent to pick the category that describes the patient's combined household income best; check only one):

- Less than \$15,000 ( 1 )
- \$15,000 - \$29,999 ( 2 )
- \$30,000 - \$49,999 ( 3 )
- \$50,000 or more ( 4 )

**D. Source of patient**

(Clinic staff should pick the best description of the source of patient)

25. Source of patient (check only one):

- Bariatric surgery clinic ( 01 )
- Current patient of NASH CRN investigator ( 02 )
- Diabetes clinic ( 03 )
- GI/liver clinic ( 04 )
- HMO-based ( 05 )
- Lipid disorders clinic ( 06 )
- Obesity clinic ( 07 )
- Pediatric clinic ( 08 )
- Pediatric weight disorders clinic ( 09 )
- Primary care clinic ( 10 )
- Self referral ( 11 )
- Other, (specify): ( 12 )

\_\_\_\_\_ specify

**E. Previous registration in a NASH CRN study**

26. Has the patient ever been assigned an ID number in a NASH CRN study:

- ( Yes 1 ) ( No 2 )

**30.** \_\_\_\_\_

27. In which NASH CRN studies has the patient previously been registered (check all that apply)

- a. NAFLD Database: ( 1 )
- b. Other, (specify): ( 1 )

\_\_\_\_\_ specify

28. ID Number previously assigned to patient (record patient ID in item 2):

\_\_\_\_\_

29. Code previously assigned to patient (record patient code in item 3):

\_\_\_\_\_

**31.** \_\_\_\_\_

**F. ID assignment**

(If a STOP or ineligible condition was checked in section B, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.)

30. Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC	####,zzz
------	----------

**G. Administrative information**

31. Clinical Coordinator PIN: \_\_\_\_\_

32. Clinical Coordinator signature: \_\_\_\_\_

33. Date form reviewed: \_\_\_\_\_  
day mon year



**D. Biopsy specimens and stained slides at the clinical center**

12. What stained slides from the biopsy are available at the clinical center (*check all that apply*)
- a. H & E stain:  1
  - b. Masson's trichrome stain:  1
  - c. Iron stain:  1
  - d. Other (*specify*):  1
- \_\_\_\_\_
- e. Other (*specify*):  1
- \_\_\_\_\_

**E. Unstained slides to be sent to the DCC**

13. Are unstained slides available for sending to the DCC:
- ( Yes )      ( No )  
 1       2
- 16.**
14. How many unstained slides will be sent to the DCC: \_\_\_\_\_
15. What are the slide sequence numbers for those slides (*from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60*)
- a. Slide sequence number: \_\_\_\_\_  
01-60
  - b. Slide sequence number: \_\_\_\_\_  
01-60
  - c. Slide sequence number: \_\_\_\_\_  
01-60
  - d. Slide sequence number: \_\_\_\_\_  
01-60
  - e. Slide sequence number: \_\_\_\_\_  
01-60
  - f. Slide sequence number: \_\_\_\_\_  
01-60
  - g. Slide sequence number: \_\_\_\_\_  
01-60
  - h. Slide sequence number: \_\_\_\_\_  
01-60
  - i. Slide sequence number: \_\_\_\_\_  
01-60
  - j. Slide sequence number: \_\_\_\_\_  
01-60

**F. Stained slides to be sent to the DCC**

*(The institution's stained slides must be sent to the DCC only if fewer than 2 unstained slides will be sent to the DCC)*

16. Are any stained slides to be sent to the DCC:
- ( Yes )      ( No )  
 1       2
- 24.**
17. How many stained slides to be sent to the DCC: \_\_\_\_\_
18. Sequence number of slides to be sent to DCC
- a. Slide sequence number of H & E stain: \_\_\_\_\_  
81-90
  - b. Slide sequence number of Masson's trichrome stain: \_\_\_\_\_  
81-90
  - c. Slide sequence number of iron stain: \_\_\_\_\_  
81-90
  - d. Slide sequence number of other stain: \_\_\_\_\_  
81-90
19. Are any stained slides to be returned to the clinic:
- ( Yes )      ( No )  
 1       2
- 23.**
20. How many stained slides are to be returned to the clinic: \_\_\_\_\_
21. List sequence numbers of those slides to be returned
- a. Slide sequence number: \_\_\_\_\_  
81-90
  - b. Slide sequence number: \_\_\_\_\_  
81-90
  - c. Slide sequence number: \_\_\_\_\_  
81-90
  - d. Slide sequence number: \_\_\_\_\_  
81-90
22. When do the stained slides need to be returned to the clinical center (*check only one*):
- Immediately after central review  1
  - At the end of the NASH CRN funding period  2

23. Which pathology department did these slides come from:

NASH CRN clinical center's pathology department ( 1 )

Other, (specify): 24. ( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the TONIC trial record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**G. Administrative information**

24. Clinical Coordinator PIN: \_\_\_\_\_

25. Clinical Coordinator signature:  
\_\_\_\_\_

26. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



# TONIC

## Transfer Notification

**Purpose:** To record a transfer from one center to another center.

**When:** Upon transferring to the enrolling center and prior to the first visit at the adopting center.

**By whom:** Clinical coordinator of each center (enrolling center: sections A-C, adopting center: sections D- E).

**Instruction: For enrolling center:** When patient notifies enrolling center of upcoming transfer, the enrolling clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recent completed HI, LR, RD, and PE/PF forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0932). The DCC will key the form.

### A. Enrolling center and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of notification of intent to transfer:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_ n \_\_\_\_\_

6. Form & revision: \_\_\_\_\_ t n 1

7. Study: \_\_\_\_\_ TONIC 3

### B. Last followup visit information

8. Date of last followup visit:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Visit ID code of last completed followup visit: \_\_\_\_\_ f \_\_\_\_\_

10. Have cryovial and slide labels been sent to the adopting center:

(1) Yes                      ( \*2 ) No

\* Send the cryovial and slide labels to the adopting center.

### C. Enrolling center administrative information

11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

12. Clinical coordinator ID: \_\_\_\_\_

13. Clinical coordinator signature: \_\_\_\_\_

### D. Adopting center, patient and visit identification

14. Adopting center ID: \_\_\_\_\_

15. Patient ID (must be same as in Section A): \_\_\_\_\_

16. Patient code (must be same as in Section A): \_\_\_\_\_

17. Expected date of first followup visit at adopting center:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

18. Visit ID code for expected first followup visit at adopting center: \_\_\_\_\_ f \_\_\_\_\_

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.*

### E. Adopting center administrative information

19. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

20. Clinical coordinator ID: \_\_\_\_\_

21. Clinical coordinator signature: \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*

**NASH CRN Adult NAFLD Database 2**  
**NASH CRN Pediatric NAFLD Database 2**

## NAFLD Database 2 Form Abbreviations and Case Report Form Names

---

Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
BG	Baseline History
BP	Blood Processing for Plasma and Serum
BQ	Beverage Questionnaire (BEVQ-15)
CF	Continuation Form
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
CV	Cardiovascular Risk Factors
DR	Death Report
EN	Database 2 Enrollment
FR	FibroScan® Report
HC	Hepatocellular Carcinoma Report
HF	Liver Biopsy Histology Findings
HI	Follow-up Medical History
IE	Interim Event Report
IR	Liver Imaging Studies Report
LD	Lifetime Drinking History (Skinner)
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
MV	Missed or Incomplete Visit
PE	Physical Examination
RC	Rescreen Form
RG	Registration
SD	Liver Biopsy Materials Documentation
TN	Transfer Notification

---

## NAFLD Database 2

AD – Alcohol Use Disorders Identification Test  
(AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Screening visit t0.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient age 12 or older.

**Instructions:** Flash Card #9, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator then should complete section B below.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code:  t   0  \_\_\_\_\_

6. Form & revision:  a   d   1

7. Study: NAFLD Database 2  6

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the questionnaire completed:

Self-administered by patient ( 1 )  
Interview with translator ( 2 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-10 are for clinical center use only*).

11. How often do you have a drink containing alcohol?

- |       |                    |                              |                              |                              |
|-------|--------------------|------------------------------|------------------------------|------------------------------|
| Never | Monthly<br>or less | Two to four<br>times a month | Two to three<br>times a week | Four or more<br>times a week |
| ( 0 ) | ( 1 )              | ( 2 )                        | ( 3 )                        | ( 4 )                        |
- 21.

12. How many drinks containing alcohol do you have on a typical day when you are drinking?

- |        |        |        |        |            |
|--------|--------|--------|--------|------------|
| 1 or 2 | 3 or 4 | 5 or 6 | 7 to 9 | 10 or more |
| ( 0 )  | ( 1 )  | ( 2 )  | ( 3 )  | ( 4 )      |

13. How often do you have six or more drinks on one occasion?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

14. How often during the last year have you found that you were not able to stop drinking once you had started?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

15. How often during the last year have you failed to do what was normally expected from you because of drinking?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

16. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

17. How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

18. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

19. Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

20. Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

21. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**



14. Do any of the patient's first degree relatives (parent, brother, sister, child) have atrophy of body fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

15. Do any of the patient's first degree relatives (parent, brother, sister, child) have a problem with cholesterol or blood fat:
- Yes ( 1 )  
 No ( 2 )  
 Don't know ( 3 )

19. Does the patient have a liver biopsy done no more than 90 days prior to registration in the Database 2 Study that you want evaluated for the Database 2 Study (*complete the Liver Biopsy Histology Findings (HF) and Liver Biopsy Materials Documentation (SD) forms for this biopsy*):

( Yes ( \* 1 ) No ( 2 ) )

21. \_\_\_\_\_

*\*Blood drawn for specimen collection must be within 90 days of the biopsy.*

20. Date of liver biopsy no more than 90 days prior to registration in Database 2 Study that you want evaluated:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**C. NAFLD history**

16. Date patient was first diagnosed with fatty liver disease or NASH-related cirrhosis:
- \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

21. Will the patient have a biopsy during screening:
- ( Yes ( \* 1 ) No ( 2 ) )

17. What prompted the evaluation for NAFLD, NASH, or NASH-related cirrhosis (*check all that apply*)
- a. Symptoms for liver disease: ( 1 )  
 b. Result of being evaluated for another illness: ( 1 )  
 c. During a routine or insurance physical examination: ( 1 )  
 d. Blood donation: ( 1 )  
 e. Other (*specify*): ( 1 )

*\*Complete the Liver Biopsy Histology Findings (HF) and Liver Biopsy Materials Documentation (SD) forms for this biopsy. Blood draw for banking should be done prior to the biopsy or 4 days after the biopsy.*

22. Has the patient had a liver imaging study in the past 6 months:
- ( Yes ( \* 1 ) No ( 2 ) )
- \*Complete the Liver Imaging Studies Report (IR) form.*

\_\_\_\_\_ specify

**D. Weight history**

18. What procedures/tests supported this first diagnosis (*check all that apply*)
- a. Liver biopsy: ( 1 )  
 b. Imaging studies (*Ultrasound, CT, MRI*): ( 1 )  
 c. Elevated aminotransferases: ( 1 )  
 d. Other (*specify*): ( 1 )

23. What was the patient's birthweight:
- \_\_\_\_\_ lbs \_\_\_\_\_ oz

\_\_\_\_\_ specify

24. Review flashcard 11. Which (picture) best describes your weight pattern over the past 5 years (*check only one*):
- Up and down, up and down ( 1 )  
 Up gradually ( 2 )  
 Up sharply (*gained a lot in a brief interval*) ( 3 )  
 Down gradually ( 4 )  
 Down sharply (*lost a lot in a brief interval*) ( 5 )  
 No or minimal change ( 6 )



25. What is the patient's current weight  
(ask the patient for his/her weight):  
\_\_\_\_\_ lbs

26. What is the most the patient has ever  
weighed:  
\_\_\_\_\_ lbs

27. At what age did the patient weigh the  
most:  
\_\_\_\_\_ age in years

28. Is the patient age 18 or older:  
( Yes ) ( No )  
( 1 ) ( 2 )  
31. \_\_\_\_\_

29. What is the least the patient has ever  
weighed since age 18:  
\_\_\_\_\_ lbs

30. At what age did the patient weigh the  
least since age 18:  
\_\_\_\_\_ age in years

31. Does the patient weigh more than he/she  
did one year ago:  
( Yes ) ( No )  
( 1 ) ( 2 )  
33. \_\_\_\_\_

32. How much more does the patient weigh  
now compared to one year ago:  
\_\_\_\_\_ lbs

33. Does the patient weigh less than he/she  
did one year ago:  
( Yes ) ( No )  
( 1 ) ( 2 )  
35. \_\_\_\_\_

34. How much less does the patient weigh  
now compared to one year ago:  
\_\_\_\_\_ lbs

35. Did the patient try to lose or gain weight:  
( Yes ) ( No )  
( 1 ) ( 2 )  
37. \_\_\_\_\_

36. Which did the patient try to do (check only one):  
Gain weight ( 1 )  
Lose weight ( 2 )

**E. Tobacco cigarette smoking history** (interview with patient; not interview with parent, not by chart review)

37. Is the patient age 12 or older:  
( Yes ) ( No )  
( 1 ) ( 2 )  
43. \_\_\_\_\_

38. Have you ever smoked tobacco cigarettes:  
Never ( 1 )  
In the past but not anymore ( 2 )  
Currently smokes cigarettes ( 3 )  
43. \_\_\_\_\_

39. Did you smoke cigarettes regularly ("No" means  
less than 20 packs of cigarettes in a lifetime or less  
than 1 cigarette a day for one year):  
( Yes ) ( No )  
( 1 ) ( 2 )  
43. \_\_\_\_\_

40. How old were you when you first started  
regular cigarette smoking:  
\_\_\_\_\_ years

41. How old were you when you (last)  
stopped smoking cigarettes (code as "n" if the pa-  
tient didn't stop smoking):  
\_\_\_\_\_ years

42. On the average of the entire time that you  
smoked cigarettes, how many cigarettes  
did you smoke per day:  
\_\_\_\_\_ cigarettes/day

**F. Menstrual history**

43. Is the patient female:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

44. Has menarche occurred:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.

45. If yes, what was the patient's age at menarche:

\_\_\_\_\_  
 age in years

46. Characterize the menstrual history in the past 5 years (check only one):


- Regular periods ( 1 )
- Irregular periods ( 2 )
- Rare periods ( 3 )
- No periods ( 4 )

47. Is patient post-menopausal:



( Yes ) ( No )  
 ( 1 ) ( 2 )  
 49.










48. What was the patient's age at menopause:

\_\_\_\_\_  
 age in years

**G. Medical history** ( means Caution; condition is exclusionary if study physician agrees with diagnosis)

49. Has the patient ever been diagnosed with and treated for any of the following (check all that apply; source of information can be interview and/or chart review)

- a. Diabetes type 1: ( 1 )
- b. Diabetes type 2: ( 1 )
- c. Gestational diabetes (diabetes of pregnancy): ( 1 )
- d. Hepatitis B: ( 1 )  

- e. Hepatitis C: ( 1 )  


- f. Autoimmune hepatitis: ( 1 )
- g. Autoimmune cholestatic liver disorder (PBC or PSC): ( 1 )  

- h. Wilson's disease: ( 1 )  

- i. Alpha-1-antitrypsin (A1AT) deficiency: ( 1 )  

- j. Glycogen storage disease: ( 1 )  

- k. Iron overload: ( 1 )  

- l. Polycystic liver disease: ( 1 )
- m. Drug induced liver disease: ( 1 )
- n. Gilbert's syndrome: ( 1 )
- o. Esophageal or gastric varices on endoscopy: ( 1 )
- p. Bleeding from varices: ( 1 )
- q. Other gastrointestinal bleeding: ( 1 )
- r. Ascites: ( 1 )
- s. Edema: ( 1 )
- t. Hepatic encephalopathy: ( 1 )
- u. Portal hypertension: ( 1 )
- v. Hepatorenal syndrome: ( 1 )
- w. Hepatopulmonary syndrome: ( 1 )
- x. Short bowel syndrome: ( 1 )  

- y. Hemophilia (bleeding disorder): ( 1 )  

- z. HIV positive: ( 1 )  

- aa. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: ( 1 )
- ab. Endocrine disease (hormonal abnormality): ( 1 )
- ac. Hepatocellular carcinoma: ( 1 )  

- ad. Other malignancy (cancer): ( 1 )
- ae. Peripheral neuropathy: ( 1 )

- af. Seizure disorder or epilepsy: (  )
- ag. Drug allergies: (  )
- ah. Hypothyroidism: (  )
- ai. Hypertension: (  )
- aj. Cerebrovascular disease: (  )
- ak. Dysbetalipoproteinemia: (  )
- al. Chronic cholestasis: (  )
- am. Hyperlipidemia (*high cholesterol, high triglycerides*): (  )
- an. Pancreatitis: (  )
- ao. Cholelithiasis: (  )
- ap. Coronary artery disease: (  )
- aq. Elevated uric acid such as gout: (  )
- ar. Kidney disease: (  )
- as. Polycystic ovary syndrome: (  )
- at. Sleep apnea (*not breathing during sleep*): (  )
- au. Dermatologic disorders: (  )
- av. Myopathy: (  )
- aw. Myositis: (  )
- ax. Major depression: (  )
- ay. Schizophrenia: (  )
- az. Bipolar disorder: (  )
- ba. Obsessive compulsive disorder: (  )
- bb. Severe anxiety or personality disorder: (  )
- bc. None of the above: (  )



**51. Organ, limb, or bone marrow transplant**

- a. Has the patient ever received a liver transplant:
 

Yes	No
( <input type="checkbox"/> )	( <input type="checkbox"/> )
- b. Has the patient ever received any other organ, limb, or bone marrow transplant:
 

Yes	No
( <input type="checkbox"/> )	( <input type="checkbox"/> )

**52. Has the patient received total parenteral nutrition (TPN) for more than 1 month within 6 months prior to liver biopsy:**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |



**53. Is the patient currently undergoing evaluation for bariatric surgery:**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |

**54. Does the patient have symptoms suggestive of sleep apnea (*snoring, observed periods of apnea, disruptive sleep disturbances*):**

- |                              |                              |
|------------------------------|------------------------------|
| Yes                          | No                           |
| ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |

**50. Has the patient ever had surgery for any of the following (*check all that apply*)**

- a. Stapling or banding of the stomach: (  )
  - b. Jejunioileal (*or other intestinal*) bypass prior to the diagnosis of NAFLD: (  )
  - c. Biliopancreatic diversion: (  )
  - d. Other GI or bariatric surgery (*specify*): (  )
- 
- e. None of the above: (  )



**H. Medication use**

**55.** Has the patient used any antidiabetic medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**56.**

*(If yes, check all that apply):*

- a.** Acarbose (Precose): (  )
- b.** Acetohexamide (Dymelor): (  )
- c.** Chlorpropamide (Diabinese): (  )
- d.** Glimepiride (Amaryl): (  )
- e.** Glipizide (Glucotrol, Glucotrol XL): (  )
- f.** Glyburide (Micronase, DiaBeta, Glynase): (  )
- g.** Insulin: (  )
- h.** Metformin (Glucophage, Glucophage XR): (  )
- i.** Miglitol (Glycet): (  )
- j.** Nateglinide (Starlix): (  )
- k.** Pioglitazone (Actos): (  )
- l.** Repaglinide (Prandin): (  )
- m.** Rosiglitazone (Avandia): (  )
- n.** Tolazamide (Tolinase): (  )
- o.** Tolbutamide (Orinase): (  )
- p.** Other, *(specify)*: (  )

**56.** Has the patient taken any alcohol abuse (dependence or withdrawal) medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**57.**

*(If yes, check all that apply):*

- a.** Chlordiazepoxide (Librium): (  )
- b.** Clorazepate dipotassium (Tranxene): (  )
- c.** Diazepam (Valium): (  )
- d.** Disulfiram (Antabuse): (  )
- e.** Hydroxyzine pamoate (Vistaril): (  )
- f.** Naltrexone hydrochloride (Revia): (  )
- g.** Other, *(specify)*: (  )

**57.** Has the patient taken any antihyperlipidemic medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**58.**

*(If yes, check all that apply):*

- a.** Atorvastatin (Lipitor): (  )
- b.** Colestipol hydrochloride (Colestid): (  )
- c.** Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
- d.** Gemfibrozil (Gen-Fibro, Lopid): (  )
- e.** Fenofibrate (Tricor): (  )
- f.** Fluvastatin sodium (Lescol): (  )
- g.** Lovastatin (Mevacor): (  )
- h.** Nicotinic acid (Niaspan): (  )
- i.** Pravastatin sodium (Pravachol): (  )
- j.** Rosuvastatin (Crestor): (  )
- k.** Simvastatin (Zocor): (  )
- l.** Other, *(specify)*: (  )

**58.** Has the patient taken any antiobesity medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**59.**

*(If yes, check all that apply):*

- a.** Dexfenfluramine hydrochloride (Redux): (  )
- b.** Fenfluramine hydrochloride (Pondimin): (  )
- c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d.** Orlistat (Xenical): (  )
- e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
- f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
- h.** Other, *(specify)*: (  )

**59.** Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

**60.**

*(If yes, check all that apply):*

- a.** Acetaminophen (Tylenol): ( 1 )
- b.** Aspirin - 325 mg: ( 1 )
- c.** Aspirin - 81 mg: ( 1 )
- d.** Celecoxib (Celebrex): ( 1 )
- e.** Ibuprofen (Advil, Motrin): ( 1 )
- f.** Indomethacin (Indocin): ( 1 )
- g.** Naproxen (Aleve, Naprosyn): ( 1 )
- h.** Rofecoxib (Vioxx): ( 1 )
- i.** Other, *(specify)*: ( 1 )

\_\_\_\_\_  
**j.** Other, *(specify)*: ( 1 )

**60.** Has the patient taken any strong opiates containing acetaminophen medication in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

**61.**

*(If yes, check all that apply):*

- a.** Darvocet: ( 1 )
- b.** Esgic - Plus: ( 1 )
- c.** Fioricet: ( 1 )
- d.** Lorcet: ( 1 )
- e.** Lortab: ( 1 )
- f.** Norco: ( 1 )
- g.** Percocet: ( 1 )
- h.** Talacen: ( 1 )
- i.** Tylenol #3: ( 1 )
- j.** Tylenol #4: ( 1 )
- k.** Tylox: ( 1 )
- l.** Vicodin: ( 1 )
- m.** Wygesic: ( 1 )
- n.** Other, *(specify)*: ( 1 )

**61.** Has the patient taken any histamine H2 receptor antagonists/other gastrointestinal medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

**62.**

*(If yes, check all that apply):*

- a.** Cimetidine (Tagamet): ( 1 )
- b.** Esomeprazole magnesium (Nexium): ( 1 )
- c.** Famotidine (Pepcid): ( 1 )
- d.** Lansoprazole (Prevacid): ( 1 )
- e.** Nizatidine (Axid): ( 1 )
- f.** Omeprazole (Prilosec): ( 1 )
- g.** Ranitidine (Zantac): ( 1 )
- h.** Ranitidine bismuth citrate (Tritec): ( 1 )
- i.** Antacids, *(specify)*: ( 1 )

\_\_\_\_\_  
**j.** Other, *(specify)*: ( 1 )

**62.** Has the patient taken any anticoagulant/antiplatelet medications in the past 3 months:

( Yes ) ( No )  
( 1 ) ( 2 )

**63.**

*(If yes, check all that apply):*

- a.** Clopidogrel (Plavix): ( 1 )
- b.** Dipyridamole: ( 1 )
- c.** Heparin: ( 1 )
- d.** Ticlopidine (Ticlid): ( 1 )
- e.** Warfarin (Coumadin): ( 1 )
- f.** Other, *(specify)*: ( 1 )

**63.** Has the patient taken any systemic corticosteroids in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**64.**

*(If yes, check all that apply):*

- a.** Betamethasone sodium (Celestone): ( 1 )
  - b.** Cortisol: ( 1 )
  - c.** Cortisone: ( 1 )
  - d.** Dexamethasone (Decadron): ( 1 )
  - e.** Hydrocortisone (Hydrocortone): ( 1 )
  - f.** Methylprednisolone (Solu-Medrol): ( 1 )
  - g.** Prednisolone (Prelone): ( 1 )
  - h.** Prednisone: ( 1 )
  - i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): ( 1 )
  - j.** Other, *(specify)*: ( 1 )
- 

**64.** Has the patient taken any cardiovascular/antihypertensive medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**65.**

*(If yes, check all that apply):*

- a.** Amiodarone (Pacerone): ( 1 )
- b.** Amlodipine besylate (Norvasc): ( 1 )
- c.** Atenolol (Tenormin): ( 1 )
- d.** Benazepril (Lotensin): ( 1 )
- e.** Captopril (Capoten): ( 1 )
- f.** Clonidine (Catapres): ( 1 )
- g.** Digoxin (Lanoxin): ( 1 )
- h.** Diltiazem (Cardizem): ( 1 )
- i.** Doxazosin (Cardura): ( 1 )
- j.** Enalapril (Vasotec): ( 1 )
- k.** Felodipine (Plendil): ( 1 )
- l.** Furosemide (Lasix): ( 1 )
- m.** Hydrochlorothiazide (Esidrix, HydroDIURIL): ( 1 )
- n.** Hydrochlorothiazide + triamterene (Dyazide): ( 1 )
- o.** Lisinopril (Prinivil, Zestril): ( 1 )
- p.** Losartan potassium (Cozaar): ( 1 )
- q.** Losartan potassium with hydrochlorothiazide (Hyzaar): ( 1 )
- r.** Metoprolol (Lopressor): ( 1 )
- s.** Nifedipine (Adalat, Procardia): ( 1 )
- t.** Perhexiline maleate: ( 1 )
- u.** Propranolol (Inderal): ( 1 )
- v.** Quinapril (Accupril): ( 1 )
- w.** Terazosin (Hytrin): ( 1 )
- x.** Timolol maleate (Blocadren): ( 1 )
- y.** Valsartan (Diovan): ( 1 )
- z.** Verapamil (Calan): ( 1 )
- aa.** Other, *(specify)*: ( 1 )

**ab.** Other, *(specify)*: ( 1 )

---

**65.** Has the patient taken any estrogen, progestin, hormone replacement therapy, or selective estrogen receptor modulators in the past 3 months:

Yes                      No  
 ( 1 )                      ( 2 )  
**66.**

*(If yes, check all that apply):*

- a.** Conjugated estrogen (Premarin/Prempro): ( 1 )
- b.** Diethylstilbestrol and methyltestosterone (Tylosterone): ( 1 )
- c.** Esterified estrogen (Estratab, Menest): ( 1 )
- d.** Estradiol (Estrace): ( 1 )
- e.** Ethinyl estradiol (Estinyl): ( 1 )
- f.** Fluoxymesterone (Android-F, Halotestin): ( 1 )
- g.** Levonorgestrel (Norplant): ( 1 )
- h.** Medroxyprogesterone (Cycrin, Provera): ( 1 )
- i.** Megestrol (Megace): ( 1 )
- j.** Methyltestosterone (Android): ( 1 )
- k.** Nandrolone (Deca-Durabolin, Hybolin Decanoate, Kabolin): ( 1 )
- l.** Norethindrone (Micronor): ( 1 )
- m.** Norgestrel (Ovrette): ( 1 )
- n.** Oral contraceptives: ( 1 )
- o.** Oxandrolone (Oxandrin): ( 1 )
- p.** Oxymetholone (Anadrol): ( 1 )
- q.** Progesterone (Prometrium): ( 1 )
- r.** Raloxifene (Evista): ( 1 )
- s.** Tamoxifen (Nolvadex): ( 1 )
- t.** Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- u.** Other, *(specify)*: ( 1 )  
\_\_\_\_\_

**66.** Has the patient taken any allergy or asthma medications in the past 3 months:

Yes                      No  
 ( 1 )                      ( 2 )  
**67.**

*(If yes, check all that apply):*

- a.** Beclomethasone dipropionate (Becloment, Vanciril): ( 1 )
- b.** Budesonide (Pulmicort, Rhinocort): ( 1 )
- c.** Fluticasone propionate (Flonase, Flovent): ( 1 )
- d.** Loratadine (Claritin): ( 1 )
- e.** Mometasone furoate (Nasonex): ( 1 )
- f.** Triamcinolone acetonide (Azmecort, Nasacort): ( 1 )
- g.** Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- h.** Other, *(specify)*: ( 1 )  
\_\_\_\_\_

**67.** Has the patient taken a multivitamin regularly in the past 3 months:

Yes                      No  
 ( 1 )                      ( 2 )

**68.** Has the patient taken vitamins other than multivitamins in the past 3 months:

Yes                      No  
 ( 1 )                      ( 2 )  
**70.**

**69.** Which vitamins has the patient taken *(check all that apply)*:

- a.** Vitamin B (any type): ( 1 )
- b.** Vitamin C: ( 1 )
- c.** Vitamin D: ( 1 )
- d.** Vitamin E: ( 1 )
- e.** Other, *(specify)*: ( 1 )  
\_\_\_\_\_

70. Has the patient taken any supplements in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

71.

(If yes, check all that apply):

- a. Alpha-lipoic acid: ( 1 )
- b. Alpha-tocopherol: ( 1 )
- c. Beta-carotene: ( 1 )
- d. Betaine (Cystadane): ( 1 )
- e. Calcium (any form): ( 1 )
- f. Carnitine (any form): ( 1 )
- g. Chondroitin (any form): ( 1 )
- h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): ( 1 )
- i. Cod liver oil: ( 1 )
- j. Coenzyme Q: ( 1 )
- k. Dichloroacetate: ( 1 )
- l. Echinacea: ( 1 )
- m. Fish oil (any form): ( 1 )
- n. Flax seed oil: ( 1 )
- o. Garlic: ( 1 )
- p. Ginkgo biloba: ( 1 )
- q. Glucosamine (any form): ( 1 )
- r. Lecithin: ( 1 )
- s. Magnesium: ( 1 )
- t. Milk thistle: ( 1 )
- u. N-acetyl-cysteine: ( 1 )
- v. Potassium (any form): ( 1 )
- w. S-adenylmethionine (SAM-e): ( 1 )
- x. Saw palmetto: ( 1 )
- y. Selenium: ( 1 )
- z. St. John's Wort: ( 1 )
- aa. Taurine: ( 1 )
- ab. Zinc picolinate: ( 1 )
- ac. Other, (specify): ( 1 )

ad. Other, (specify): ( 1 )

71. Has patient taken any of the following medications or other supplements/medications in the past 3 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

72.

(If yes, record all other supplements/medications):

- a. Demeclocycline (Declomycin): ( 1 )
  - b. Divalproex (Depakote): ( 1 )
  - c. Doxycycline (Monodox): ( 1 )
  - d. Isotretinoin (Accutane): ( 1 )
  - e. Levothyroxine (Levoxyl, Synthroid): ( 1 )
  - f. Liothyronine (Cytomel): ( 1 )
  - g. Methotrexate (Rheumatrex): ( 1 )
  - h. Minocycline (Dynacin, Minocin): ( 1 )
  - i. Oxytetracycline (Terramycin): ( 1 )
  - j. Penicillamine (Cuprimine, Depen): ( 1 )
  - k. Tetracycline (Achromycin): ( 1 )
  - l. Trientine hydrochloride (Syprine): ( 1 )
  - m. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): ( 1 )
  - n. Valproate sodium (Depacon): ( 1 )
  - o. Valproic acid (Depakene): ( 1 )
  - p. Other, (specify): ( 1 )
- 
- q. Other, (specify): ( 1 )
- 
- r. Other, (specify): ( 1 )
-



**I. Administrative information**

72. Study Physician PIN: \_\_\_\_\_

73. Study Physician signature:  
\_\_\_\_\_

74. Clinical Coordinator PIN: \_\_\_\_\_

75. Clinical Coordinator signature:  
\_\_\_\_\_

76. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year



**9. Date and time of blood draw**

**a. Date:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

**b. Time:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**10. Number of heparin (green-top) tubes:** \_\_\_\_\_

**11. Affix matching heparin tube MACO label (only key NASH ID):**

NAFLD DB 2 Form, BP Plasma. Pt: 9999, xyz Visit vvvv Date: _____
--

**12. Number of SST serum separator (red-gray top) tubes:** \_\_\_\_\_

**13. Attach duplicate SST serum separator tube labels (only key NASH ID):**

NAFLD DB 2 Serum 1 Pt: 9999, xyz Visit: vvvv BP Date: _____
---

NAFLD DB 2 Serum 2 Pt: 9999, xyz Visit: vvvv BP Date: _____
---

*\*Needed during screening only*

NAFLD DB 2 Serum 3* Pt: 9999, xyz Visit: vvvv BP Date: _____
--

**14. Phlebotomist:**  
 \_\_\_\_\_  
 print name

**C. Aliquots for plasma and serum**

*Pipette 0.5 mL of plasma into each of up to ten 2.0 mL pre-labeled cryovials and pipette 0.5 mL of serum into each of up to 30 (screening); 20 (follow-up) 2.0 mL pre-labeled cryovials.*

**15. Time of separation into plasma and serum aliquots**

**a. Time of plasma separation:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**b. Time of serum separation:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**16. Number of aliquots for plasma:** \_\_\_\_\_

**17. Number of aliquots for serum:** \_\_\_\_\_

**18. Attach duplicate cryovial labels (use aliquot #00 labels which are located in the first row of labels in the set):**

Serum aliquot #00 label	Plasma aliquot #00 label

**19. Technician:**  
 \_\_\_\_\_  
 print name

**D. Freezing aliquots**

*Freeze plasma and serum aliquots immediately at -70°C or -20°C. If frozen at -20°C, the cryovials must be transferred to -70°C within 24 hours. Batch ship monthly to the NIDDK Biosample Repository at Fisher BioServices.*

20. Time cryovials frozen in -70°C or -20°C

\_\_\_\_\_ : \_\_\_\_\_ (    ) (    )  
hour minute am pm

21. Number of cryovials frozen: \_\_\_\_\_

22. Technician:

\_\_\_\_\_  
print name

**E. Administrative information**

23. Clinical Coordinator PIN: \_\_\_\_\_

24. Clinical Coordinator signature:  
\_\_\_\_\_

25. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## NAFLD Database 2

## BQ – Beverage Questionnaire (BEVQ-15)

**Purpose:** To obtain the patient's beverage intake.

**When:** Visits t0, t048, t096, t144, t192, t240, t288, t336, t384, t432, and t480.

**By whom:** Self-administered, but Clinical Coordinator must be available at visit to answer questions and to review completed form.

**Respondent:** Patient or completed by patient with parental assistance.

**Instructions:** The Clinical Coordinator should complete section A and attach a label to page 2 before giving the questionnaire to the patient for completion. The Clinical Coordinator should review the completed questionnaire for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to page 2 and the Clinical Coordinator should complete section C.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit :

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:          t   \_\_\_\_\_

6. Form & revision:                 b     q     1  

7. Study:               NAFLD Database 2   6  

## C. Administrative information

*(To be completed by clinical center staff after survey is completed.)*

24. Clinical Coordinator PIN: \_\_\_\_\_

25. Clinical Coordinator signature:  
 \_\_\_\_\_

26. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

**B. Instructions:** In the past month, please indicate your response for each beverage type by circling the best response for “how often” and “how much each time”.

- 1) Indicate how often you drank the following beverages, for example, if you drank 5 glasses of water per week, circle response “3” under the column labeled “4-6 time per week”.
- 2) Indicate the approximate amount of beverage you drank each time, for example, you drank 1 cup of water each time, circle response “2” under the column labeled “8 fl oz (1 cup)” under “how much each time.”
- 3) Do not count beverages used in cooking or other preparations, such as milk in cereal.
- 4) Count milk added to tea and coffee in the *tea/coffee with cream beverage category* **NOT** in the milk categories.

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

#	Type of beverage	a.							b.				
		How often (circle one)							How much each time (circle one)				
		Never or less than 1 time per week (go to next beverage)	1 time per week	2-3 times per week	4-6 times per week	1 time per day	2+ times per day	3+ times per day	Less than 6 fl oz (3/4 cup)	8 fl oz (1 cup)	12 fl oz (1 1/2 cups)	16 fl oz (2 cups)	More than 20 fl oz (2 1/2 cups)
8.	Water	0	1	2	3	4	5	6	1	2	3	4	5
9.	100% Fruit Juice	0	1	2	3	4	5	6	1	2	3	4	5
10.	Sweetened Juice Beverage/ Drink (fruit ades, lemonade, punch, Sunny Delight)	0	1	2	3	4	5	6	1	2	3	4	5
11.	Whole Milk	0	1	2	3	4	5	6	1	2	3	4	5
12.	Reduced Fat Milk (2%)	0	1	2	3	4	5	6	1	2	3	4	5
13.	Low Fat/Fat Free Milk (Skim, 1%, Buttermilk, Soy milk)	0	1	2	3	4	5	6	1	2	3	4	5
14.	Soft Drinks, Regular	0	1	2	3	4	5	6	1	2	3	4	5
15.	Diet Soft Drinks/Artificially Sweetened Drinks (Crystal Light)	0	1	2	3	4	5	6	1	2	3	4	5
16.	Sweetened Tea	0	1	2	3	4	5	6	1	2	3	4	5
17.	Tea or Coffee, with cream and/or sugar (includes non-dairy creamer)	0	1	2	3	4	5	6	1	2	3	4	5
18.	Tea or Coffee, black, with/without artificial sweetener (no cream or sugar)	0	1	2	3	4	5	6	1	2	3	4	5
19.	Beer, Ales, Wine Coolers, Non-alcoholic or Light Beer	0	1	2	3	4	5	6	1	2	3	4	5
20.	Hard Liquor (shots, rum tequila, etc.)	0	1	2	3	4	5	6	1	2	3	4	5
21.	Wine (red or white)	0	1	2	3	4	5	6	1	2	3	4	5
22.	Energy or Sport Drinks (Red Bull, Rockstar, Gatorade, Powerade, etc.)	0	1	2	3	4	5	6	1	2	3	4	5
23.	Other (specify): _____	0	1	2	3	4	5	6	1	2	3	4	5

## NAFLD Database 2

## CF - Continuation Form

**Purpose:** (1) To identify and document the patients who consent to continue in the NAFLD Database 2 study, and (2) close out patients who, in the opinion of the clinical center, will not be good candidates for continuing in the next phase.

**When:** At the t192 or t240 visit.

**Administered by:** Clinical coordinator.

**Respondent:** None.

**Instructions:** Complete this form for each patient enrolled in the NAFLD Database 2 study at the t192 or t240 visit. A new visit window schedule for visits t240 through t480 will be generated upon keying this form for patients who are continuing in the NAFLD Database 2 study. If the patient does not consent to continue in the NAFLD Database 2 study, keying this form will close the patient out of the Database 2 study so that future visits will not be expected.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:            t \_\_\_\_\_

6. Form & revision:            c f 1

7. Study:                NAFLD Database 2 6

## C. Administrative information

10. Clinical Coordinator PIN: \_\_\_\_\_

11. Clinical Coordinator signature:  
 \_\_\_\_\_

12. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                                   day                                  mon                                  year

## B. Database 2 participation

8. This patient will continue in the NAFLD Database 2 study:

(<sup>Yes</sup>  
 ( 1 )      ( <sup>No</sup>  
                   2 )  
 10. ————

9. Has the patient or parent signed the latest version of the NAFLD Database 2 informed consent (*if applicable*):

(<sup>Yes</sup>  
 ( 1 )      ( <sup>No</sup>  
                   \* 2 )

\* Patient must sign the informed consent if required by local IRB

## NAFLD Database 2 CG - Genetic Consent and Blood Collection Documentation

**Purpose:** To document options selected for use of blood samples for genetic research.

**When:** Visit t0 or as needed during follow-up (during follow-up, use the visit code of the follow-up visit that is open).

**By whom:** Study Physician, Clinical Coordinator and laboratory personnel responsible for collection of blood.

**Instructions:** Complete this form based on the consent documents signed by the patient/parent. If the patient changes his/her mind regarding consent for use of samples after the initial form is completed, complete a new CG form. If the patient consents, (1) Fill one 10 mL EDTA vacutainer tube with blood. (2) Pack and ship the blood in the EDTA tube to the NIDDK Genetics Repository at Rutgers University on the same day blood is collected. Ship at ambient room temperature. Ship blood in the specimen shippers supplied by the NIDDK Genetics Repository.

### A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision: c g 2

7. Study: NAFLD Database 2 6

### B. Consent for collection, storage, and use of blood samples for current and future genetic research

8. Has a sufficient yield of DNA ( $\geq 100$  micrograms) been banked at the NIDDK Genetics Repository for this participant in a previous NASH CRN study:

( Yes ) ( No )  
 ( 1 ) ( 2 )

10.

9. For which study was it collected (check all that apply):

a. Database ( 1 )

b. PIVENS ( 1 )

c. TONIC ( 1 )

d. Other, (specify): ( 1 )

\_\_\_\_\_  
 specify

20.

10. Does the patient/parent consent to genetic research on NAFLD or NASH-related cirrhosis that is currently planned by the study investigators:

( Yes ) ( No )  
 ( 1 ) ( 2 )

11. Does the patient/parent consent to future genetic research on NAFLD or NASH-related cirrhosis by this study or other study investigators:

( Yes ) ( No )  
 ( 1 ) ( 2 )

12. Does the patient/parent consent to future genetic research not related to NAFLD or NASH-related cirrhosis by this study or other study investigators:

( Yes ) ( No )  
 ( 1 ) ( 2 )

13. Other information related to consent for genetic research that clinic staff feel needs to be keyed to the study database (e.g., if your genetic consent had other options that are not covered by the 3 categories of use of samples specified above):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





## NAFLD Database 2

## CO - Database Closeout

**Purpose:** To temporarily close out NAFLD Database 2 participation for a patient enrolled in the NAFLD Database 2 in order for the patient to be randomized in another NASH CRN study. Once this form is keyed, the patient is exempt from completing visits in the NAFLD Database 2.

**When:** Ideally, upon randomization of the NAFLD Database 2 patient into another NASH CRN study, but this form can be completed at any time. Use visit code n.

**Administered by:** Clinical coordinator.

**Respondent:** None.

**Instructions:** This form must be completed and keyed for patients enrolled in the NAFLD Database 2 who are subsequently randomized in FLINT, CyNCh, or other NASH CRN study. Until it is keyed, the patient will remain on the active patient list, meaning that all Database visits are due for the patient. The keying of this form will turn off the visit windows for the NAFLD Database 2. If the patient is not randomized in the new study, this form should not be keyed. If it has already been keyed, it should be deleted.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date form is initiated; effective date for suspension of visit completion*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code:   n   \_\_\_\_\_

6. Form & revision:   c     o     1  

7. Study: NAFLD Database 2   6  

## B. New study information

8. Study that patient has been or will be randomized in (*check only one*):

FLINT (  )

CyNCh (  )

Other (*specify*): (  )

\_\_\_\_\_ specify

9. Date of randomization in new study (*enter expected date if patient has not yet been randomized*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## C. Administrative information

10. Clinical Coordinator PIN: \_\_\_\_\_

11. Clinical Coordinator signature: \_\_\_\_\_

12. Date form reviewed: \_\_\_\_\_  
day mon year

### Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.

**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.

**By whom:** Data Coordinating Center staff.

**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c  r  3   6. Form and revision
- \_\_\_ 7. Study: **6**=Database 2
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- \_\_\_ \_\_\_ 9. Sequence number for  
... a. H & E stained slide
- \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
- \_\_\_ \_\_\_ ... c. Iron stained slide

**C. Adequacy of biopsy**

- \_\_\_ \_\_\_ 10. Biopsy length (mm)
- \_\_\_ 11. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_\_\_ 12. Followup with clinic (*Specify*):

## D. Histology

\_\_\_\_\_ Patient ID

### H & E stain

13. Steatosis (assume macro, e.g., large and small droplet)

\_\_\_\_\_ ... a. Grade: **0**<5%; **1**=5-33%; **2**=34-66%; **3**>66%

\_\_\_\_\_ ... b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar

\_\_\_\_\_ ... c. Type of macrovesicular steatosis: **0**=Predominantly large droplet; **1**=Mixed large and small droplet;  
**2**=Predominantly small droplet

\_\_\_\_\_ ... d. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

14. Inflammation

\_\_\_\_\_ ... a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0**=0; **1**<2 under 20x mag; **2**=2-4 under 20 mag; **3**>4 under 20 mag

\_\_\_\_\_ ... d. Amount of portal, chronic inflammation: **0**=None; **1**=Mild; **2**=More than mild

15. Liver cell injury

\_\_\_\_\_ ... a. Ballooning: **0**=None → **GOTO Item 15d**; **1**=Few; **2**=Many

\_\_\_\_\_ ... b. Severe ballooning present: **0**=No; **1**=Yes

\_\_\_\_\_ ... c. Classical balloon cells present: **0**=No; **1**=Yes

\_\_\_\_\_ ... d. Acidophil bodies: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ ... f. Megamitochondria: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ 16. Mallory-Denk bodies: **0**=Rare/absent; **1**=Many

\_\_\_\_\_ 18. Glycogenosis of hepatocytes: **0**=Not present; **1**=Focal, involving less than 50% of the hepatocytes; **2**=Diffuse, involving greater than or equal to 50% of the hepatocytes

### 19. Masson's trichrome stain

\_\_\_\_\_ ... a. Fibrosis stage: **0**=None → **GOTO Item 20**; **1a**=Mild, zone 3 perisinusoidal (*requires trichrome*);  
**1b**=Moderate, zone 3, perisinusoidal (*does not require trichrome*); **1c**=Portal/periportal only;  
**2**=Zone 3 and periportal, any combination; **3**=Bridging; **4**=Cirrhosis

\_\_\_\_\_ ... b. Perisinusoidal fibrosis grade: **0**=No perisinusoidal fibrosis present; **1**=Perisinusoidal fibrosis present that requires a Masson stain to identify; **2**=Perisinusoidal fibrosis present that is visible on the H&E stain

\_\_\_\_\_ ... c. Predominant location of fibrosis: **0**=More predominance around or between portal areas; **1**=No portal or central predominance; **2**=More predominance around/between central veins

### 20. Iron stain

\_\_\_\_\_ ... a. Hepatocellular iron grade: **0**=Absent or barely discernible, 40x → **GOTO item 20c**;  
**1**=Barely discernible granules, 20x; **2**=Discrete granules resolved, 10x; **3**=Discrete granules resolved, 4x;  
**4**=Masses visible by naked eye

\_\_\_\_\_ ... b. Hepatocellular iron distribution: **0**=Periportal; **1**=Periportal and midzonal; **2**=Panacinar; **3**=Zone 3 or azonal

\_\_\_\_\_ ... c. Nonhepatocellular iron grade: **0**=None → **GOTO item 21**; **1**=Mild; **2**=More than mild

\_\_\_\_\_ ... d. Nonhepatocellular iron distribution: **0**=Large vessel endothelium only; **1**=Portal/fibrosis bands only, but more than just in large vessel endothelium; **2**=Intraparenchymal only; **3**=Both portal and intraparenchymal

\_\_\_\_\_ 21. Is this steatohepatitis? **99**=Not NAFLD; **0**=NAFLD, not NASH; **1a**=Suspicious/borderline/indeterminate: Zone 3 pattern; **1b**=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; **2**=Yes, definite

25. Other comments: \_\_\_\_\_

## NAFLD Database 2

## Cardiovascular Risk Factors

**Purpose:** To determine a patient's need for referral for cholesterol management based on the Adult Treatment Panel III (ATP III) cholesterol guidelines.

**When:** Visits t0, t048, t096, t144, t192, t240, t288, t336, t384, t432, and t480.

**Administered by:** Clinic coordinator by interview with patient and medical chart review.

**Respondent:** Patient age 18 or older.

**Instructions:** Collect information by interview, chart review, and by transcribing data from the Database 2 Physical Examination (PE), Laboratory Results (LR), and Baseline (BG) or Follow-up (HI) Medical History forms. The anthropometric, blood pressure, and laboratory values reported on this form should be those collected at the same visit.

**Important: Key the CV form only after you have keyed the BG/HI, LR, and PE forms.**

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: t \_\_\_\_\_

6. Form & revision: c v 1

7. Study: NAFLD Database 2 6

## B. Framingham Risk Assessment

8. Was a lipid panel obtained at this visit:  
 Yes ( 1 ) No ( 2 )  
 21. \_\_\_\_\_

9. Gender  
 Male ( 1 )  
 Female ( 2 )

10. Age: \_\_\_\_\_  
 years

11. Are you a current cigarette smoker:  
 Yes ( 1 ) No ( 2 )

12. Total cholesterol (from LR form): \_\_\_\_\_  
 mg/dL

*If the patient has total cholesterol greater than 300 mg/dL, an IE form should be completed.*

13. HDL cholesterol (from LR form): \_\_\_\_\_  
 mg/dL

14. LDL cholesterol (from LR form)\*: \_\_\_\_\_  
 mg/dL

*\*Enter "GT" if LDL cannot be calculated due to high triglycerides.*

15. Blood pressure  
 a. Systolic blood pressure (from PE form): \_\_\_\_\_  
 mmHg

b. Diastolic blood pressure (from PE form): \_\_\_\_\_  
 mmHg

16. Are you currently being treated for high blood pressure with medicine prescribed by your doctor:  
 Yes ( 1 ) No ( 2 )

17. Has anyone in your immediate family (blood-related parent, brother, sister, or child) been diagnosed with early heart disease (before age 55 years for male relatives and before 65 years for female relatives):  
 Yes ( 1 ) No ( 2 )

**18.** Framingham point scores (use the *ATP III At-a-Glance Quick Desk Reference [NIH Publication No. 01-3305]* on page 4 to record gender-specific scores based on the patient's risk factors. Circle "+" or "-" as appropriate. Key + # or - #; if 0 for an item with +/-, key "+0" or "+00".)

**a.** Age score  
(based on item 10; if the patient's age is 18 or 19, use the 20-34 age range):

+/- \_\_\_\_\_  
points

**b.** Total cholesterol score  
(based on items 10 and 12): \_\_\_\_\_  
points

**c.** Smoking score  
(based on items 10 and 11): \_\_\_\_\_  
points

**d.** HDL score (based on item 13): +/- \_\_\_\_\_  
points

**e.** Systolic blood pressure score (based on items 15a and 16): \_\_\_\_\_  
points

**19.** Point total (Add items 18a-e): + / - \_\_\_\_\_  
points

**20.** Framingham risk of heart attack or dying of coronary heart disease in the next 10 years (using the *ATP-III at-a-glance publication on page 4*, use the point total [item 19] to convert into gender-specific 10 year risk): \_\_\_\_\_  
%

If 10 year risk % < 1, record "00". If 10 year risk % ≥ 30, record "30".

**C. ATP III guidelines**

**21.** Have you been diagnosed with type 1 or type 2 diabetes:

( Yes ) ( No )  
( 1 ) ( 2 )

**22.** Have you been diagnosed with clinical atherosclerotic disease that confers high risk for coronary heart disease (CHD) events (CHD risk equivalent):

( Yes ) ( No )  
( 1 ) ( 2 )

(If yes, check all that apply)

- a.** Clinical CHD: ( 1 )
- b.** Symptomatic carotid artery disease: ( 1 )
- c.** Peripheral arterial disease: ( 1 )
- d.** Abdominal aortic aneurysm: ( 1 )

**23.** Was "Yes" checked for either item 21 or 22 or was LDL unknown ("GT" in item 14 or lipid panel not obtained):

( Yes ) ( No )  
( 1 ) ( 2 )

**24.** Is 10-year Framingham heart attack risk estimate 22% (item 20) or more:

( Yes ) ( No )  
( 1 ) ( 2 )

**25.** Is LDL cholesterol (item 14) less than 100 mg/dL or was LDL unknown ("GT" in item 14 or lipid panel not obtained):

( Yes ) ( No )  
( 1 ) ( 2 )

**26.** Is LDL cholesterol (item 14) 130 mg/dL or more:

( Yes ) ( No )  
( \* 1 ) ( † 2 )

\*Refer for cholesterol management with LDL-lowering drug therapy (see Database 2 SOP V).

†Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see Database 2 SOP V).

27. Coronary heart disease (CHD) risk factors: Do you have any of the following:
- a. Current cigarette smoking (based on item 11): (  )
  - b. SBP ≥ 140 mmHg or DBP ≥ 90 mmHg or on antihypertensive medication (based on items 15 and 16): (  )
  - c. HDL cholesterol less than 40 mg/dL (based on item 13): (  )
  - d. Family history of premature CHD (based on item 17): (  )
  - e. Age in men ≥ 45 years or age in women ≥ 55 years (based on items 9 and 10): (  )
  - f. HDL cholesterol 60 mg/dL or more (based on item 13): (  )
28. Total number of CHD risk factors (add number of "yes" in items 27a-e and subtract 1 if item 27f is "yes"; code as "0" if only 27f is "yes"): \_\_\_\_\_

29. Are there 2 or more CHD risk factors (item 28):
- ( Yes ) ( No )  
 (  ) (  )
- 32.**

30. Is LDL cholesterol less than 130 mg/dL:
- ( Yes ) ( No )  
 (  ) (  )
- 34.**

31. Is 10-year Framingham heart attack risk estimate between 10 and 20%, inclusive or LDL cholesterol 160 mg/dL or more:
- ( Yes ) ( No )  
 (  ) (  )  
 ( \* ) ( )  
 (  ) (  )

*\*Refer for cholesterol management with LDL-lowering drug therapy (see Database 2 SOP V).*

*†Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see Database 2 SOP V).*

32. Is LDL cholesterol 190 mg/dL or more:
- ( Yes ) ( No )  
 (  ) (  )  
 ( \* ) ( )  
 (  )

*\*Refer for cholesterol management with LDL-lowering drug therapy (see Database 2 SOP V).*

33. Is LDL cholesterol between 160 and 189 mg/dL, inclusive:
- ( Yes ) ( No )  
 (  ) (  )  
 ( † ) ( )
- †Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see Database 2 SOP V).*

**D. Other cardiovascular events**

34. Has the patient ever been diagnosed with or treated for any of the following (check all that apply)
- a. Myocardial infarction: (  )
  - b. Angina: (  )
  - c. Stroke: (  )
  - d. Cerebrovascular disease: (  )
  - e. Coronary artery disease: (  )
  - f. Congestive heart failure: (  )
  - g. Peripheral vascular disease: (  )
  - h. Other cardiovascular disease (specify): (  )
- \_\_\_\_\_ specify \_\_\_\_\_
- i. None of the above: (  )

**E. Administrative information**

35. Study Physician PIN: \_\_\_\_\_
36. Study Physician signature: \_\_\_\_\_
37. Clinical Coordinator PIN: \_\_\_\_\_
38. Clinical Coordinator signature: \_\_\_\_\_
39. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

# Men

## Estimate of 10-Year Risk for Men

(Framingham Point Scores)

Age	Points
20-34	-9
35-39	-4
40-44	0
45-49	3
50-54	6
55-59	8
60-64	10
65-69	11
70-74	12
75-79	13

Total Cholesterol	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
<160	0	0	0	0	0
160-199	4	3	2	1	0
200-239	7	5	3	1	0
240-279	9	6	4	2	1
≥280	11	8	5	3	1

	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
Nonsmoker	0	0	0	0	0
Smoker	8	5	3	1	1

HDL (mg/dL)	Points
≥60	-1
50-59	0
40-49	1
<40	2

Systolic BP (mmHg)	If Untreated	If Treated
<120	0	0
120-129	0	1
130-139	1	2
140-159	1	2
≥160	2	3

Point Total	10-Year Risk %
<0	< 1
0	1
1	1
2	1
3	1
4	1
5	2
6	2
7	3
8	4
9	5
10	6
11	8
12	10
13	12
14	16
15	20
16	25
≥17	≥ 30

10-Year risk \_\_\_\_\_%

# Women

## Estimate of 10-Year Risk for Women

(Framingham Point Scores)

Age	Points
20-34	-7
35-39	-3
40-44	0
45-49	3
50-54	6
55-59	8
60-64	10
65-69	12
70-74	14
75-79	16

Total Cholesterol	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
<160	0	0	0	0	0
160-199	4	3	2	1	1
200-239	8	6	4	2	1
240-279	11	8	5	3	2
≥280	13	10	7	4	2

	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
Nonsmoker	0	0	0	0	0
Smoker	9	7	4	2	1

HDL (mg/dL)	Points
≥60	-1
50-59	0
40-49	1
<40	2

Systolic BP (mmHg)	If Untreated	If Treated
<120	0	0
120-129	1	3
130-139	2	4
140-159	3	5
≥160	4	6

Point Total	10-Year Risk %
< 9	< 1
9	1
10	1
11	1
12	1
13	2
14	2
15	3
16	4
17	5
18	6
19	8
20	11
21	14
22	17
23	22
24	27
≥25	≥ 30

10-Year risk \_\_\_\_\_%





**12. Underlying cause of death** (*Study Physician: use whatever knowledge you have to best characterize the primary cause of death*); **(CHECK ONLY ONE):**

- Coronary heart disease ( 01)  
 13.
  - Cardiovascular disease ( 02)  
 14.
  - Liver disease ( 03)  
 15.
  - Malignancy (cancer) ( 04)  
 16.
  - Gastrointestinal (GI) disease ( 05)  
 17.
  - Pulmonary (lung) disease ( 06)  
 18.
  - Pneumonia ( 07)  
 19.
  - Complication of diabetes ( 08)  
 19.
  - Accident ( 09)  
 19.
  - Suicide ( 10)  
 19.
  - Homicide ( 11)  
 19.
  - Kidney disease or renal failure ( 12)  
 19.
  - Sepsis, staph or other infection ( 13)  
 19.
  - Multi-organ failure ( 14)  
 19.
  - Other (*specify*): ( 15)  
 19.
- 
- Unknown ( 16)  
 19.

**13. CAUSE OF DEATH: Coronary heart disease (CHD) subclassification (*check only one*):**

Definite fatal myocardial infarction (MI) or heart attack ( 1)

- Defined as:*
1. Death within 28 days of hospital admission, **OR**
  2. Postmortem findings consistent with MI within 28 days of hospital admission, **OR**
  3. Documented definite or probable MI in previous 28 days if death occurred out of hospital and no evidence of a noncoronary cause of death, **OR**
  4. Autopsy evidence of recent coronary occlusion or MI < 28 days old.

Probable fatal MI ( 2)

- Defined as:*
1. Death within 28 days of hospital admission in cases defined in probable MI cases, **OR**
  2. Death within 6 hours of hospital admission with cardiac symptoms and/or signs. Other confirmatory data (biomarkers, ECG) are absent or not diagnostic).

Definite fatal CHD ( 3)

- Defined as:*
1. A history of CHD and/or documented cardiac pain within 72 hours before death and no evidence of a noncoronary cause of death, **OR**
  2. Autopsy evidence of chronic CHD, including coronary atherosclerosis and myocardial scarring.

**Go to 19.**

**14. CAUSE OF DEATH: Cardiovascular (CVD) disease subclassification (*check only one*):**

Congestive heart failure (CHF) ( 1)

*Defined as: Death due to clinical, radiologic or postmortem evidence of CHF without clinical or postmortem evidence of an acute ischemic event (cardiogenic shock included).*

Documented arrhythmia ( 2)

*Defined as: Death due to brady- or tachy- arrhythmias not associated with an acute ischemic event.*

Cerebrovascular (stroke) ( 3)

*Defined as: Death due to stroke occurring within 7 days of signs and symptoms of stroke or during admission for stroke.*

Other cardiovascular ( 4)

*Defined as: Death due to other known vascular diseases including abdominal aortic aneurysm rupture.*

Specify: \_\_\_\_\_

**Go to 19.**

**15. CAUSE OF DEATH: Liver disease**  
subclassification (**check only one**):

- Nonalcoholic fatty liver disease  
(NAFLD) ( 1 )
- Chronic hepatitis C ( 2 )
- Acute liver failure ( 3 )
- Other (*specify*): ( 4 )
- 

19. \_\_\_\_\_

**16. CAUSE OF DEATH: Malignancy**  
(cancer) subclassification (**check only one**):

- Breast cancer ( 01 )
- Colon cancer ( 02 )
- Endometrial/Uterine cancer ( 03 )
- Esophageal cancer ( 04 )
- Hepatocellular carcinoma (HCC)\*  
\* *Complete and key the HC form.* ( 05 )
- Ovarian cancer ( 06 )
- Pancreatic cancer ( 07 )
- Prostate cancer ( 08 )
- Rectal cancer ( 09 )
- Other known cancer or malignant tumor  
(*specify*): ( 10 )
- 

Unknown cancer site ( 11 )

19. \_\_\_\_\_

**17. CAUSE OF DEATH: Gastrointestinal**  
subclassification (**check only one**):

- Diverticular disease ( 1 )
- Clostridium difficile* colitis ( 2 )
- Intestinal obstruction ( 3 )
- Ulcer (*gastric, duodenal, peptic,*  
*gastrojejunal*) ( 4 )
- Vascular disorders of the intestine ( 5 )
- Other (*specify*): ( 6 )
- 

19. \_\_\_\_\_

**18. CAUSE OF DEATH: Pulmonary (lung)**  
subclassification (**check only one**):

- Asthma ( 1 )
- Acute respiratory failure ( 2 )
- Interstitial lung disease (ILD) ( 3 )
- Other (*specify*): ( 4 )
- 

**19. Contributing causes of death**  
(**check all that apply**):a. Coronary heart disease (CHD) (*specify*): ( 1 )

b. Cerebrovascular disease (stroke): ( 1 )

c. Congestive heart failure (CHF): ( 1 )

d. Documented arrhythmia, not  
associated with MI: ( 1 )e. Other cardiovascular disease (*specify*): ( 1 )

f. Diabetes Type 1: ( 1 )

g. Diabetes Type 2: ( 1 )

h. Liver disease (*specify*): ( 1 )i. Hepatocellular (liver) carcinoma  
(HCC)\*:  
\* *Complete and key the HC form.* ( 1 )j. Other malignancy (cancer) (*specify*): ( 1 )k. Gastrointestinal (GI) disease (*specify*): ( 1 )l. Pulmonary (lung) disease (*specify*): ( 1 )

m. Pneumonia: ( 1 )

n. Kidney disease: ( 1 )

o. Sepsis, staph or other infection: ( 1 )

p. Other (*specify*): ( 1 )

q. Unknown: ( 1 )

r. None: ( 1 )



**Narrative - do not key:**

[Empty box for narrative text]

## NAFLD Database 2


## EN - Database 2 Enrollment

- Purpose:**
- Check eligibility for NAFLD Database 2.
  - Record reasons for ineligibility for patients found to be ineligible.

**When:** Visit t0.

**Administered by:** Study Physician (adult hepatologist or pediatrician) and Clinical Coordinator.

**Respondent:** Patient and Clinical Coordinator.

**Instructions:** If  is checked for any item, complete the entire form but note that the patient may not continue in the NAFLD Database 2 study. If an item has not been assessed because the patient is ineligible, write "m" (missing) next to that item. This form should be keyed for each patient for whom a Registration (RG) Form was completed without encountering a .

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: t 0 \_\_\_\_\_

6. Form & revision: e n 1

7. Study: NAFLD Database 2 6

## B. Current status

8. Was participant previously enrolled in a NASH CRN study:

Yes ( 1 ) No ( 2 )

15.

## C. Alcohol use history consistent with NAFLD

9. On average, how many drinks containing alcohol has the patient had per week in the 2 years prior to screening:

Less than one drink a week ( 1 )

One drink a week ( 2 )

2 to 4 drinks a week ( 3 )

5 to 7 drinks a week ( 4 )

8 to 10 drinks a week ( \* 5 )

11 to 14 drinks a week ( \* 6 )

15 or more drinks a week ( 7 )

~~Elig~~

\* Patient is ineligible if female

10. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient's alcohol use since starting the screening process consistent with NAFLD:

Yes ( 1 ) No ( 2 )

~~Elig~~

**D. Exclusions**

**11.** Do any of the patient’s assessments show evidence of these medical exclusions

**a.** Total parenteral nutrition (TPN) for >1 month within 6 months prior to liver biopsy:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**b.** Short bowel syndrome:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**c.** History of gastric or jejunioileal bypass prior to the diagnosis of NAFLD (bariatric surgery performed concomitant with or following the diagnosis of NAFLD is not exclusionary):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**d.** History of biliopancreatic diversion:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig

**12.** Child-Pugh Turcotte score

**a.** Serum albumin subscore (from Form LR: > 3.5 g/dL=1, 2.8-3.5=2, < 2.8=3): \_\_\_\_\_  
 1-3

**b.** Serum total bilirubin subscore (from Form LR: < 2.0 mg/dL=1, 2.0-3.0=2, > 3.0=3): \_\_\_\_\_  
 1-3

**c.** INR subscore (from Form LR: < 1.7=1, 1.7-2.3=2, > 2.3=3): \_\_\_\_\_  
 1-3

**d.** Ascites subscore (use all available information from all sources to score; None=1, Mild, easily managed=2, Severe, refractory=3): \_\_\_\_\_  
 1-3

**e.** Hepatic encephalopathy subscore (use all available information from all sources to score; None=1, Mild, easily managed=2, Severe, refractory=3): \_\_\_\_\_  
 1-3

**f.** Child-Pugh Turcotte score (sum items 12a + 12b + 12c + 12d + 12e): \_\_\_\_\_  
 5-15

**g.** Evidence of advanced liver disease (Child-Pugh-Turcotte score at least 10):  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )  
 Elig



13. Do any of the patient's assessments show evidence of these medical exclusions

a. Evidence of chronic hepatitis B as marked by the presence of HBsAg in serum (*patients with isolated anti-HBc are not excluded*):

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

b. Evidence of chronic hepatitis C as marked by the presence of anti-HCV or HCV RNA in serum:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

c. Low alpha-1-antitrypsin level and ZZ phenotype (*physician judgment*):

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

d. Wilson's disease:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

e. Known glycogen storage disease:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

f. Known dysbetalipoproteinemia:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

g. Known phenotypic hemochromatosis (removal of > 4 g of iron by phlebotomy in an individual 18 or older):

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

h. Congenital hepatic fibrosis or polycystic liver disease:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

i. Other metabolic/congenital liver disease:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

j. HIV infection or other systemic infectious disease:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

k. Disseminated or advanced extrahepatic malignancy:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

l. Other severe systemic illness that in the opinion of the investigator would interfere with completion of followup:

(Yes) (No)  
 ( 1 ) ( 2 )  
 Elig

14. Do any of the patient's assessments show evidence of these histologic exclusions

a. Hepatic iron index > 1.9:

Yes ( 1 )      No ( 2 )  
 Elig

b. Prominent bile duct injury (*florid duct lesions or periductal sclerosis*) or bile duct paucity:

Yes ( 1 )      No ( 2 )  
 Elig

c. Chronic cholestasis:

Yes ( 1 )      No ( 2 )  
 Elig

d. Vascular lesions (*vasculitis, cardiac sclerosis, acute or chronic Budd-Chiari, hepatoportal sclerosis, peliosis*):

Yes ( 1 )      No ( 2 )  
 Elig

e. Iron overload greater than 3+:

Yes ( 1 )      No ( 2 )  
 Elig

f. Zones of confluent necrosis, infarction, massive or sub-massive, pan-acinar necrosis:

Yes ( 1 )      No ( 2 )  
 Elig

g. Multiple epithelioid granulomas:

Yes ( 1 )      No ( 2 )  
 Elig

15. Is there any other condition or issue that, in the opinion of the investigator, would interfere with the patient's adherence to study requirements:

Yes ( 1 )      No ( 2 )  
 Elig

**E. Check on plasma and serum collection and histologic criteria for inclusion in Database 2 study**

16. Date of plasma and serum collection:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

17. Biopsy for NAFLD

a. Did participant have a biopsy for suspected or confirmed NAFLD within 90 days of plasma and serum collection (*check "no" if local review shows cirrhosis*):

Yes ( 1 )  
 No ( 2 )

18.

b. Date of biopsy:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

18. Biopsy for NASH-related cirrhosis

a. Did participant have a biopsy for suspected or confirmed NASH-related cirrhosis within 90 days of plasma and serum collection:

Yes ( 1 )  
 No ( 2 )

19.

b. Date of biopsy:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

**F. Diagnostic category for inclusion**

19. Diagnostic category for inclusion (*use the most severe diagnosis from the HF form; i.e., if both NAFLD and cirrhosis are confirmed, check "2" for cirrhosis; check only one*):

Biopsy for suspected or confirmed NAFLD (*item 17a = Yes and date in item 17b is within 90 days of date in item 16*) ( 1 )

Biopsy for suspected or confirmed NASH-related cirrhosis (*item 18a = Yes and date in item 18b is within 90 days of date in item 16*) ( 2 )

Participant was previously enrolled in a NASH CRN study, but has not had a biopsy within past 3 months ( 3 )

None of the above ( 4 )

Elig

**G. Eligibility check**

20. Was an ineligibility condition checked or an eligibility not ascertained in items 9-15 or item 19:

Yes (  1 )      No (  2 )  
 23.

*Instructions: Key visit t0 forms: RG and AD, BG, BP, CG, HF, LD, LR, LS, PE, as appropriate. Run the Enrollment Task on your clinic data system.*

21. Were any STOP's or ineligible conditions other than "missing Form EN" identified by the Enrollment Task:

Yes (  1 )

23.

No (  2 )

Task not run because patient is known to be ineligible ( \*  3 )

23.

*\*You can skip running the Enrollment Task if you already know that the patient is ineligible; you must run the task to enroll the patient.*

22. Does the patient/parent still consent/assent to enrollment (you should ask the patient/parent to orally affirm his/her consent/assent):

Yes ( \*  1 )      No (  2 )  
 24.        Eng

*\*Go to item 24 and complete this form. Then key this form and run the Enrollment Task on your clinic data system to enroll the patient.*

**H. Reasons for ineligibility for ineligible patients**

*NOTE: Complete this section for ineligible patients only.*

23. Reason for ineligibility (check all that apply)

- a. Reason covered in items 9-15, 19, or 22: (  1 )
- b. Tests are outside time window and clinic chose not to repeat tests: (  1 )
- c. Other reason not covered on this form (specify): (  1 )

\_\_\_\_\_

**I. Administrative information**

24. Study Physician PIN: \_\_\_\_\_

25. Study Physician signature: \_\_\_\_\_

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature: \_\_\_\_\_

28. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ day      \_\_\_\_\_ mon      \_\_\_\_\_ year



**C. FibroScan® Procedure information**

10. Was FibroScan® exam performed:  
 Yes ( 1 ) No ( \* 2 )  
 12.

\* Complete item 11, then skip to item 21.

11. Reason FibroScan® exam not performed (check all that apply):  
 a. Patient had a skin-to-capsule distance measurement greater than 3.5cm: ( 1 )  
 b. Other (specify): ( 1 )  
 \_\_\_\_\_  
 Skip to item 21.

12. Probe type used:  
 M: ( 1 )  
 XL: ( 2 )

**D. FibroScan® exam #1 results**

13. FibroScan® Technician PIN: \_\_\_\_\_

14. Number of measurements  
 a. Valid measurements\*: \_\_\_\_\_  
 # of valid measurements  
 b. Invalid measurements: \_\_\_\_\_  
 # of invalid measurements  
 c. Total measurements: \_\_\_\_\_  
 # of total measurements

**To calculate invalid measurements, subtract valid measurements from total measurements**

\* Note: at least ten valid measurements should be made.

15. Equivalent Liver Stiffness (E)  
 a. Median (kPa): \_\_\_\_\_  
 (1.5-75.0)  
 b. IQR (kPa): \_\_\_\_\_  
 c. IQR/med: \_\_\_\_\_  
 %

16. Controlled Attenuation Parameter (CAP)  
 a. Median (dB/m): \_\_\_\_\_  
 (100-400)  
 b. IQR (dB/m): \_\_\_\_\_

**E. FibroScan® exam #2 results**

(This may be done by the same technician or a different technician).

17. FibroScan® Technician PIN: \_\_\_\_\_

18. Number of measurements  
 a. Valid measurements\*: \_\_\_\_\_  
 # of valid measurements  
 b. Invalid measurements: \_\_\_\_\_  
 # of invalid measurements  
 c. Total measurements: \_\_\_\_\_  
 # of total measurements

**To calculate invalid measurements, subtract valid measurements from total measurements**

\* Note: at least ten valid measurements should be made.

19. Equivalent Liver Stiffness (E)  
 a. Median (kPa): \_\_\_\_\_  
 (1.5-75.0)  
 b. IQR (kPa): \_\_\_\_\_  
 c. IQR/med: \_\_\_\_\_  
 %

20. Controlled Attenuation Parameter (CAP)  
 a. Median (dB/m): \_\_\_\_\_  
 (100-400)  
 b. IQR (dB/m): \_\_\_\_\_

**F. Administrative information**

21. Study Physician PIN: \_\_\_\_\_

22. Study Physician signature: \_\_\_\_\_

23. Clinical Coordinator PIN: \_\_\_\_\_

24. Clinical Coordinator signature: \_\_\_\_\_

25. Date form reviewed: \_\_\_\_\_  
 day mon year





**12. Inflammation**

- a. Amount of lobular inflammation:**  
 combines mononuclear, fat  
 granulomas, and pmn foci:
- 0 ( 0 )
  - < 2 / 20x mag ( 1 )
  - 2-4 / 20x mag ( 2 )
  - > 4 / 20x mag ( 3 )
- b. Amount of portal, chronic inflammation:**
- None to minimal ( 0 )
  - Mild ( 1 )
  - More than mild ( 2 )

**13. Hepatocellular ballooning:**

- None ( 0 )
- Few ( 1 )
- Many ( 2 )

**14. Steatohepatitis diagnosis:**

- Not NAFLD ( 0 )
- NAFLD, but not NASH ( 1 )
- Suspicious/borderline/indeterminate, zone 3 pattern (1A) ( 2 )
- Suspicious/borderline/indeterminate, zone 1, periportal pattern (1B) ( 3 )
- Yes, definite steatohepatitis ( 4 )

**D. Exclusion of other liver disease**

- 15. Is there evidence of primary biliary cirrhosis:**
- ( Yes ) ( No )  
 ( 1 ) ( 2 )

- 16. Is there evidence of Wilson's disease:**
- ( Yes ) ( No )  
 ( \* 1 ) ( 2 )



*\* Caution: Wilson's disease is exclusionary if the study physician agrees with diagnosis.*

**17. Features of chronic cholestatic liver disease (check all that apply):**

- a. Bile duct loss/infiltration/sclerosis:** ( \* 1 )
- b. Florid duct lesions:** ( \* 1 )
- c. Cholate stasis:** ( 1 )
- d. Copper deposition:** ( 1 )
- e. Other (specify):** ( 1 )

---

**f. None:** ( 1 )  
*\* Caution: Exclusionary if the study physician agrees with diagnosis.*

**18. Features of other forms of chronic liver disease (check all that apply):**

- a. Vascular lesions of ALD/B-C/OVD:** ( 1 )
- b. Inflammation suggestive of AIH, HCV:** ( \* 1 )
- c. Pigment suggestive of HH:** ( 1 )
- d. Globules suggestive of A1AT:** ( \* 1 )
- e. Hepatocellular changes suggestive of HBV:** ( \* 1 )
- f. Granulomas suggestive of sarcoid, PBC, infection:** ( \* 1 )
- g. Other (specify):** ( 1 )

---

**h. None:** ( 1 )  
*\* Caution: Exclusionary if the study physician agrees with diagnosis.*

**E. Evaluation of cryptogenic cirrhosis**

- 19. Is cirrhosis present:**
- ( Yes ) ( No )  
 ( 1 ) ( 2 )

**22.** \_\_\_\_\_

- 20. In your opinion, is this **cryptogenic cirrhosis** (cirrhosis that fails to meet criteria for NAFLD and without evidence of other form(s) of chronic liver disease):**

( Yes ) ( No )  
 ( 1 ) ( 2 )

**22.** \_\_\_\_\_



**21. Other features (check all that apply):**

- a. Mallory's hyaline (r/o cholate stasis): (  )
- b. Perisinusoidal fibrosis away from septa: (  )
- c. Hepatocyte ballooning: (  )
- d. Megamitochondria: (  )
- e. Other (specify): (  )  
\_\_\_\_\_
- f. None: (  )

**F. Other comments**

**22. Other comments:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**G. Administrative information**

**23. Study Pathologist PIN:** \_\_\_\_\_

**24. Study Pathologist signature (Pathologist does not need to sign this form if a signed HW form is attached.):**  
\_\_\_\_\_

**25. Clinical Coordinator PIN:** \_\_\_\_\_

**26. Clinical Coordinator signature:**  
\_\_\_\_\_

**27. Date form reviewed:**  
\_\_\_\_-\_\_\_\_-\_\_\_\_  
          day          mon          year



**E. Tobacco cigarette smoking**

16. Since the last visit, have you smoked tobacco cigarettes regularly (*"No" means smoked less than 1 day per week on average*):

Yes
No  
( 1 )
( 2 )

19.

17. On average, how many days per week have you smoked cigarettes: \_\_\_\_\_  
# days

18. On the days that you smoked, about how many cigarettes did you smoke per day:

\_\_\_\_\_ # cigarettes per day

**F. Medical history**

19. Since the last visit, has the patient been diagnosed with or treated for any of the following (*check all that apply; source of information can be interview and/or chart review*)

- |  |   |
|--|---|
| <p>a. Diabetes type 1: ( 1 )</p> <p>b. Diabetes type 2: ( 1 )</p> <p>c. Gestational diabetes (<i>diabetes of pregnancy</i>): ( 1 )</p> <p>d. Hepatitis B: ( 1 )</p> <p>e. Hepatitis C: ( 1 )</p> <p>f. Autoimmune hepatitis: ( 1 )</p> <p>g. Autoimmune cholestatic liver disorder (PBC or PSC): ( 1 )</p> <p>h. Wilson's disease: ( 1 )</p> <p>i. Alpha-1-antitrypsin (A1AT) deficiency: ( 1 )</p> <p>j. Iron overload: ( 1 )</p> <p>k. Drug induced liver disease: ( 1 )</p> <p>l. Gilbert's syndrome: ( 1 )</p> <p>m. Esophageal or gastric varices on endoscopy: ( 1 )</p> <p>n. Bleeding from varices: ( 1 )</p> <p>o. Other gastrointestinal bleeding: ( 1 )</p> <p>p. Ascites: ( 1 )</p> <p>q. Edema: ( 1 )</p> | <p>r. Hepatic encephalopathy: ( 1 )</p> <p>s. Portal hypertension: ( 1 )</p> <p>t. Hepatorenal syndrome: ( 1 )</p> <p>u. Hepatopulmonary syndrome: ( 1 )</p> <p>v. Short bowel syndrome: ( 1 )</p> <p>w. Hemophilia (<i>bleeding disorder</i>): ( 1 )</p> <p>x. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: ( 1 )</p> <p>y. Endocrine disease (<i>hormonal abnormality</i>): ( 1 )</p> <p>z. Hepatocellular carcinoma: ( 1 )</p> <p>aa. Other malignancy (<i>cancer</i>): ( 1 )</p> <p>ab. Peripheral neuropathy: ( 1 )</p> <p>ac. Seizure disorder or epilepsy: ( 1 )</p> <p>ad. Drug allergies: ( 1 )</p> <p>ae. Hypothyroidism: ( 1 )</p> <p>af. Hypertension: ( 1 )</p> <p>ag. Cerebrovascular disease: ( 1 )</p> <p>ah. Dysbetalipoproteinemia: ( 1 )</p> <p>ai. Hyperlipidemia (<i>high cholesterol, high triglycerides</i>): ( 1 )</p> <p>aj. Pancreatitis: ( 1 )</p> <p>ak. Cholelithiasis: ( 1 )</p> <p>al. Coronary artery disease: ( 1 )</p> <p>am. Elevated uric acid such as gout: ( 1 )</p> <p>an. Kidney disease: ( 1 )</p> <p>ao. Polycystic ovary syndrome: ( 1 )</p> <p>ap. Sleep apnea (<i>not breathing during sleep</i>): ( 1 )</p> <p>aq. Dermatologic disorders: ( 1 )</p> <p>ar. Myopathy: ( 1 )</p> <p>as. Myositis: ( 1 )</p> <p>at. Major depression: ( 1 )</p> <p>au. Schizophrenia: ( 1 )</p> <p>av. Bipolar disorder: ( 1 )</p> <p>aw. Obsessive compulsive disorder: ( 1 )</p> <p>ax. Severe anxiety or personality disorder: ( 1 )</p> <p>ay. None of the above: ( 1 )</p> |
|--|---|

20. Since the last visit, has the patient had surgery for any of the following (check all that apply)
- a. Stapling or banding of the stomach: ( 1 )
  - b. Jejunioleal (or other intestinal) bypass: ( 1 )
  - c. Biliopancreatic diversion: ( 1 )
  - d. Other GI or bariatric surgery (specify): ( 1 )
- 
- e. None: ( 1 )

21. Since the last visit, has the patient received an organ, limb, or bone marrow transplant:
- ( Yes ) ( No )  
( 1 ) ( 2 )

22. Since the last visit, has the patient received total parenteral nutrition (TPN):
- ( Yes ) ( No )  
( 1 ) ( 2 )

23. Is the patient currently undergoing evaluation for bariatric surgery:
- ( Yes ) ( No )  
( 1 ) ( 2 )

24. Since the last visit, has the patient been hospitalized:
- ( Yes ) ( No )  
( 1 ) ( 2 )
- 25.**

If Yes, specify reason:

\_\_\_\_\_ specify reason

25. Since the last visit, has the patient had any serious health problem not already reported:
- ( Yes ) ( No )  
( 1 ) ( 2 )
- 26.**

If Yes, specify:

\_\_\_\_\_ specify

**G. Medication use**

26. Since the last visit, has the patient used any antidiabetic medications (If yes, check all that apply)
- ( Yes ) ( No )  
( 1 ) ( 2 )
- 27.**
- a. Acarbose (Precose): ( 1 )
  - b. Acetohexamide (Dymelor): ( 1 )
  - c. Chlorpropamide (Diabinese): ( 1 )
  - d. Glimepiride (Amaryl): ( 1 )
  - e. Glipizide (Glucotrol, Glucotrol XL): ( 1 )
  - f. Glyburide (Micronase, DiaBeta, Glynase): ( 1 )
  - g. Insulin: ( 1 )
  - h. Metformin (Glucophage, Glucophage XR): ( 1 )
  - i. Miglitol (Glycet): ( 1 )
  - j. Nateglinide (Starlix): ( 1 )
  - k. Pioglitazone (Actos): ( 1 )
  - l. Repaglinide (Prandin): ( 1 )
  - m. Rosiglitazone (Avandia): ( 1 )
  - n. Tolazamide (Tolinase): ( 1 )
  - o. Tolbutamide (Orinase): ( 1 )
  - p. Other, (specify): ( 1 )
- 

27. Since the last visit, has the patient taken any alcohol abuse (dependence or withdrawal) medications:
- ( Yes ) ( No )  
( 1 ) ( 2 )

28. Since the last visit, has the patient taken any antihyperlipidemic medications (If yes, check all that apply)

( Yes ) ( No )  
( 1 ) ( 2 )

29.

- a. Atorvastatin (Lipitor): ( 1 )  
 b. Colestipol hydrochloride (Colestid): ( 1 )  
 c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): ( 1 )  
 d. Gemfibrozil (Gen-Fibro, Lopid): ( 1 )  
 e. Fenofibrate (Tricor): ( 1 )  
 f. Fluvastatin sodium (Lescol): ( 1 )  
 g. Lovastatin (Mevacor): ( 1 )  
 h. Nicotinic acid (Niaspan): ( 1 )  
 i. Pravastatin sodium (Pravachol): ( 1 )  
 j. Rosuvastatin (Crestor): ( 1 )  
 k. Simvastatin (Zocor): ( 1 )  
 l. Other, (specify): ( 1 )

29. Since the last visit, has the patient taken any antiobesity medications:

( Yes ) ( No )  
( 1 ) ( 2 )

30. Since the last visit, has the patient taken any systemic corticosteroids:

( Yes ) ( No )  
( 1 ) ( 2 )

31. Since the last visit, has the patient taken any cardiovascular/antihypertensive medications (If yes, check all that apply)

( Yes ) ( No )  
( 1 ) ( 2 )

32.

- a. Amiodarone (Pacerone): ( 1 )  
 b. Amlodipine besylate (Norvasc): ( 1 )  
 c. Atenolol (Tenormin): ( 1 )  
 d. Benazepril (Lotensin): ( 1 )  
 e. Captopril (Capoten): ( 1 )  
 f. Clonidine (Catapres): ( 1 )  
 g. Digoxin (Lanoxin): ( 1 )  
 h. Diltiazem (Cardizem): ( 1 )  
 i. Doxazosin (Cardura): ( 1 )  
 j. Enalapril (Vasotec): ( 1 )  
 k. Felodipine (Plendil): ( 1 )  
 l. Furosemide (Lasix): ( 1 )  
 m. Hydrochlorothiazide (Esidrix, HydroDIURIL): ( 1 )  
 n. Hydrochlorothiazide + triamterene (Dyazide): ( 1 )  
 o. Lisinopril (Prinivil, Zestril): ( 1 )  
 p. Losartan potassium (Cozaar): ( 1 )  
 q. Losartan potassium with hydrochlorothiazide (Hyzaar): ( 1 )  
 r. Metoprolol (Lopressor): ( 1 )  
 s. Nifedipine (Adalat, Procardia): ( 1 )  
 t. Perhexiline maleate: ( 1 )  
 u. Propranolol (Inderal): ( 1 )  
 v. Quinapril (Accupril): ( 1 )  
 w. Terazosin (Hytrin): ( 1 )  
 x. Timolol maleate (Blocadren): ( 1 )  
 y. Valsartan (Diovan): ( 1 )  
 z. Verapamil (Calan): ( 1 )  
 aa. Other, (specify): ( 1 )

ab. Other, (specify): ( 1 )

**32.** Since the last visit, has the patient taken any estrogen, progestin, hormone replacement therapy, or selective estrogen receptor modulators  
(If yes, check all that apply)

	Yes ( 1 )	No ( 2 )
	<b>33.</b>	<input type="checkbox"/>
<b>a.</b> Oral contraceptives:	<input type="checkbox"/>	<input type="checkbox"/>
<b>b.</b> Raloxifene (Evista):	<input type="checkbox"/>	<input type="checkbox"/>
<b>c.</b> Tamoxifen (Nolvadex):	<input type="checkbox"/>	<input type="checkbox"/>
<b>d.</b> Other, (specify):	<input type="checkbox"/>	<input type="checkbox"/>

---

**33.** Since the last visit, has patient taken any of the following vitamins or supplements  
(If yes, check all that apply)

	Yes ( 1 )	No ( 2 )
	<b>34.</b>	<input type="checkbox"/>
<b>a.</b> MultiVitamin:	<input type="checkbox"/>	<input type="checkbox"/>
<b>b.</b> Vitamin B (any type):	<input type="checkbox"/>	<input type="checkbox"/>
<b>c.</b> Vitamin C:	<input type="checkbox"/>	<input type="checkbox"/>
<b>d.</b> Vitamin D:	<input type="checkbox"/>	<input type="checkbox"/>
<b>e.</b> Vitamin E:	<input type="checkbox"/>	<input type="checkbox"/>
<b>f.</b> Alpha-lipoic acid:	<input type="checkbox"/>	<input type="checkbox"/>
<b>g.</b> Alpha-tocopherol:	<input type="checkbox"/>	<input type="checkbox"/>
<b>h.</b> Beta-carotene:	<input type="checkbox"/>	<input type="checkbox"/>
<b>i.</b> Betaine (Cystadane):	<input type="checkbox"/>	<input type="checkbox"/>
<b>j.</b> Calcium (any form):	<input type="checkbox"/>	<input type="checkbox"/>
<b>k.</b> Carnitine (any form):	<input type="checkbox"/>	<input type="checkbox"/>
<b>l.</b> Choline + methionine + betaine + adenosine + pyridoxine (Epocler):	<input type="checkbox"/>	<input type="checkbox"/>
<b>m.</b> Cod liver oil:	<input type="checkbox"/>	<input type="checkbox"/>
<b>n.</b> Coenzyme Q:	<input type="checkbox"/>	<input type="checkbox"/>
<b>o.</b> Echinacea:	<input type="checkbox"/>	<input type="checkbox"/>
<b>p.</b> Fish oil (any form):	<input type="checkbox"/>	<input type="checkbox"/>
<b>q.</b> Flax seed oil:	<input type="checkbox"/>	<input type="checkbox"/>
<b>r.</b> Garlic:	<input type="checkbox"/>	<input type="checkbox"/>
<b>s.</b> Ginkgo biloba:	<input type="checkbox"/>	<input type="checkbox"/>
<b>t.</b> Glucosamine (any form):	<input type="checkbox"/>	<input type="checkbox"/>
<b>u.</b> Lecithin:	<input type="checkbox"/>	<input type="checkbox"/>
<b>v.</b> Milk thistle:	<input type="checkbox"/>	<input type="checkbox"/>
<b>w.</b> N-acetyl-cysteine:	<input type="checkbox"/>	<input type="checkbox"/>
<b>x.</b> S-adenylmethionine (SAM-e):	<input type="checkbox"/>	<input type="checkbox"/>
<b>y.</b> Saw palmetto:	<input type="checkbox"/>	<input type="checkbox"/>
<b>z.</b> Selenium:	<input type="checkbox"/>	<input type="checkbox"/>
<b>aa.</b> St. John's Wort:	<input type="checkbox"/>	<input type="checkbox"/>
<b>ab.</b> Taurine:	<input type="checkbox"/>	<input type="checkbox"/>
<b>ac.</b> Zinc picolinate:	<input type="checkbox"/>	<input type="checkbox"/>
<b>ad.</b> Other, (specify):	<input type="checkbox"/>	<input type="checkbox"/>

---

34. Since the last visit, has patient taken any of the following medications or other supplements/medications  
(If yes, check all that apply)

Yes                      No  
 ( 1 )                      ( 2 )

35.

- a. Demeclocycline (Declomycin): ( 1 )
- b. Divalproex (Depakote): ( 1 )
- c. Doxycycline (Monodox): ( 1 )
- d. Isotretinoin (Accutane): ( 1 )
- e. Levothyroxine (Levoxyl, Synthroid): ( 1 )
- f. Liothyronine (Cytomel): ( 1 )
- g. Methotrexate (Rheumatrex): ( 1 )
- h. Minocycline (Dynacin, Minocin): ( 1 )
- i. Oxytetracycline (Terramycin): ( 1 )
- j. Tetracycline (Achromycin): ( 1 )
- k. Ursodeoxycholic acid (Actigall, Urso, Ursodiol): ( 1 )
- l. Valproate sodium (Depacon): ( 1 )
- m. Valproic acid (Depakene): ( 1 )
- n. Other, (specify): ( 1 )

\_\_\_\_\_

o. Other, (specify): ( 1 )

\_\_\_\_\_

35. Since the last visit, has patient taken any pain relieving, non-steroidal anti-inflammatory, aspirin, or acetaminophen-containing medications:

Yes                      No  
 ( 1 )                      ( 2 )

**H. Summary judgments about specific liver conditions** (these judgments are to be made after all of the visit data are collected)

36. Subscores to compute Child-Pugh Turcotte score

- a. Rate the patient's ascites (check only one):
  - None ( 1 )
  - Mild, easily managed ( 2 )
  - Severe, refractory ( 3 )
- b. Rate the patient's hepatic encephalopathy (check only one):
  - None ( 1 )
  - Mild, easily managed ( 2 )
  - Severe, refractory ( 3 )

**I. Administrative information**

37. Study Physician PIN: \_\_\_\_\_

38. Study Physician signature: \_\_\_\_\_

39. Clinical Coordinator PIN: \_\_\_\_\_

40. Clinical Coordinator signature: \_\_\_\_\_

41. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ day                      \_\_\_\_\_ mon                      \_\_\_\_\_ year





**14.** Did the event lead to *(check all that apply)*

- a. Emergency room visit: (  )
- b. Hospitalization: (  )
- c. Infectious episode: (  )
- d. Surgical intervention: (  )

**15.** Describe event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**16.** Is the event listed in the NCI's Common Terminology Criteria for Adverse Events (CTCAE v3.0 document available at <https://jhucss1.us/nash/default.asp>; click on Documents and then click on General Documents):

- Yes (  )      No (  )

a. Indicate the name of the event (if in the CTCAE, specify name exactly from document; if not in CTCAE specify name):

\_\_\_\_\_

\_\_\_\_\_

**17.** Indicate the severity code using the CTCAE grading scale for the AE specified (*severity grades are listed in the CTCAE v3.0 document available at <https://jhucss1.us/nash/default.asp>; click on Documents and then click on General Documents*):

- Grade 1 - Mild (  )
- Grade 2 - Moderate (  )
- Grade 3 - Severe† (  )
- Grade 4 - Life threatening or disabling† (  )
- Grade 5 - Death† ( \*  )

†Fax the DCC (Attention Pat Belt) a copy of this form if severity grade is 3 or higher (Fax 410-955-0932).

\*Complete and key Death Report (DR) form.

**18.** Date event resolved  
(enter n if event is not yet resolved):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

**19.** What action was taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**20.** Other comments on event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**F. Administrative information**

**21.** Clinical Coordinator PIN: \_\_\_\_\_

**22.** Clinical Coordinator signature:  
\_\_\_\_\_

**23.** Study Physician PIN: \_\_\_\_\_

**24.** Study Physician signature:  
\_\_\_\_\_

**25.** Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day                      mon                      year

*Key this form and fax the DCC (Attention: Pat Belt) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious events so that we assure appropriate and timely study wide review. The received reports will be reviewed by Jeanne Clark, the Safety Officer, for appropriate further review by the Steering Committee and Data and Safety Monitoring Board.*

## NAFLD Database 2

## IR - Liver Imaging Studies Report

**Purpose:** To record liver imaging study results.

**When:** As needed during screening (visit t0) and follow-up (visits t048, t096, t144, t192, t240, t288, t336, t384, t432, and t480).

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form at each of the visits listed above if the Baseline Medical History (BG) or Follow-up Medical History (HI) form says that a liver imaging study was obtained in the specified period. The form will allow you to skip out of sections that are irrelevant to your patient. What you will report at each visit are the results of the most recent scan of each type done in the 6 months prior to screening (visit t0) or in the period since the prior study visit (after enrollment). These will likely be standard of care scans with results obtained via medical records. In each case, answer the items based on review of the report; the Study Physician must review and approve the findings recorded on this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year
5. Visit code: \_\_\_\_\_
6. Form & revision:   i     r     1
7. Study: NAFLD Database 2   6

### B. Upper abdominal ultrasound

8. Did the patient have an upper abdominal ultrasound in the past 6 months (*screening*)/since the last visit (*follow-up*):  
 (Yes) (No)  
 ( ) ( )  
 11.
9. Date of most recent upper abdominal ultrasound:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

### 10. Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( )
- b. Cirrhosis: ( )
- c. Hepatomegaly: ( )
- d. Hepatic mass: ( )
- e. Intrahepatic biliary dilatation: ( )
- f. Extrahepatic biliary dilatation: ( )
- g. Gallstones/cholelithiasis: ( )
- h. Gall bladder polyps: ( )
- i. Cholecystectomy: ( )
- j. Splenomegaly: ( )
- k. Ascites: ( )
- l. Other features of portal hypertension (*specify*): ( )  
 \_\_\_\_\_  
 \_\_\_\_\_
- m. Other abnormality (*specify*): ( )  
 \_\_\_\_\_  
 \_\_\_\_\_
- n. None of the above: ( )

**C. Upper abdominal CT scan**

**11.** Did the patient have an upper abdominal CT scan in the past 6 months (*screening*)/  
since the last visit (*follow-up*):

Yes ( 1 )      No ( 2 )  
        
**14.**

**12.** Date of most recent upper abdominal CT scan:

\_\_\_\_\_  
 day                  mon                  year

**13.** Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( 1 )
- b. Cirrhosis: ( 1 )
- c. Hepatomegaly: ( 1 )
- d. Hepatic mass: ( 1 )
- e. Hepatic hemangioma: ( 1 )
- f. Hepatic cyst: ( 1 )
- g. Intrahepatic biliary dilatation: ( 1 )
- h. Extrahepatic biliary dilatation: ( 1 )
- i. Gallstones/cholelithiasis: ( 1 )
- j. Gall bladder polyps: ( 1 )
- k. Cholecystectomy: ( 1 )
- l. Splenomegaly: ( 1 )
- m. Ascites: ( 1 )
- n. Other features of portal hypertension (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- o. Other abnormality (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- p. None of the above: ( 1 )

**D. Upper abdominal MRI**

**14.** Did the patient have an upper abdominal MRI in the past 6 months (*screening*)/  
since the last visit (*follow-up*):

Yes ( 1 )      No ( 2 )  
        
**17.**

**15.** Date of most recent upper abdominal MRI:

\_\_\_\_\_  
 day                  mon                  year

**16.** Findings suggestive of NAFLD, NASH-related cirrhosis, or others of significance (*check all that apply*)

- a. Fatty infiltration: ( 1 )
- b. Cirrhosis: ( 1 )
- c. Hepatomegaly: ( 1 )
- d. Hepatic mass: ( 1 )
- e. Hepatic hemangioma: ( 1 )
- f. Hepatic cyst: ( 1 )
- g. Intrahepatic biliary dilatation: ( 1 )
- h. Extrahepatic biliary dilatation: ( 1 )
- i. Splenomegaly: ( 1 )
- j. Ascites: ( 1 )
- k. Other features of portal hypertension (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- l. Other abnormality (*specify*): ( 1 )  
\_\_\_\_\_  
\_\_\_\_\_
- m. None of the above: ( 1 )

**E. Administrative information**

17. Study Physician PIN: \_\_\_\_\_

18. Study Physician signature:  
\_\_\_\_\_

19. Clinical Coordinator PIN: \_\_\_\_\_

20. Clinical Coordinator signature:  
\_\_\_\_\_

21. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## NAFLD Database 2

LD – Lifetime Drinking History  
(Skinner)

**Purpose:** To obtain quantitative indices of the patient's alcohol consumption patterns from the onset of regular drinking.

**When:** Visit t0. If more than one LD form is needed, use visit code "n" on the second LD form.

**Administered by:** Clinical Coordinator.

**Respondent:** **New Database 2 Patients**, 18 years of age or older, without help from spouse or family.

**Instructions:** **Complete this form for new Database 2 patients only.** In addition to actual consumption levels (quantity), attention is focused upon the frequency of use, variability in consumption, types of beverages, life events that mark a change in drinking pattern, solitary versus social drinking, and time of day when alcohol is consumed. Flash Card #9, Drink Equivalents, may be used with this interview.

The interviewer begins by recording the patient's alcohol consumption behavior during the first year that he/she drank on a regular basis (at least one drink per month). Then, the patient is asked to think of when his/her drinking behavior changed in any appreciable way. In a chronological fashion, the interviewer traces the patient's alcohol consumption behavior from the age of first regular drinking to the present. Flash Card #10, Patterns of Alcohol Intake, provides sample language for the interviewer. Each LD form allows for describing six drinking phases. Use a second LD form (visit code "n") if needed to describe additional drinking phases. If this is the second LD form, skip sections B and C and start with item 20.

The interview takes approximately 20 minutes to complete. It is best given after a reasonable degree of rapport has been established, whereby the patient will feel more at ease and talk openly. Other, considerable probing and cross-referencing of facts is necessary to help in accurate recall. All information should be recorded under the appropriate heading on the LD form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year
5. Visit code: \_\_\_\_\_
6. Form & revision:              1     d     1
7. Study:                      NAFLD Database 2   6

## B. Lifetime alcohol consumption

8. Over the course of your lifetime have you ever had at least one drink of alcohol, beer, liquor, wine, or wine coolers, per month during a 12-month time period, or at least three drinks per day for at least three consecutive days (over a regular period of time):

Yes            No  
 ( 1 )        ( 2 )  
 81. ←

**C. First phase**

**Read as written:** "Now, I am going to ask you about your drinking pattern during the first year that you began to have at least one drink per month until your drinking behavior was different in a significant way from this time."

9. How old were you when you began regular drinking:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

10. How old were you at the end of first stage:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

11. During the first stage, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

12. How many days per month would you generally drink at this level:

\_\_\_\_\_ # days

13. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

14. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

15. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

16. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

**18.** ←

17. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )

18. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

19. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**D. Subsequent phase**

20. **Read as written:** "We have just discussed your drinking habits at the point when you first began to drink regularly. Now I want you to think to when your drinking behavior was different in a significant way from this time. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes No  
( 1 ) ( 2 )

81. ←

21. How old were you at the beginning of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

22. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

23. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

24. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

25. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

26. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

27. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent ( 1 )

Occasional (*less than 15 days*) ( 2 )

Weekend mainly ( 3 )

Binge (*at least 3 days heavy drinking*) ( 4 )

Frequent (*15 days or more per month*) ( 5 )

28. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1 ) ( 2 )

30. ←

29. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ..	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

30. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

31. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**E. Next subsequent phase**

32. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at a subsequent phase. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

33. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

34. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

35. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

36. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

37. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

38. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

39. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent ( 1 )

Occasional (*less than 15 days*) ( 2 )

Weekend mainly ( 3 )

Binge (*at least 3 days heavy drinking*) ( 4 )

Frequent (*15 days or more per month*) ( 5 )



40. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

42. ←

41. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family ...	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

42. What percentage of time would you drink alone, and what percentage of the time with at least one other person (record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

43. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**F. Next subsequent phase**

44. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

45. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

46. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

47. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

48. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

49. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

50. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

51. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent ( 1 )

Occasional (*less than 15 days*) ( 2 )

Weekend mainly ( 3 )

Binge (*at least 3 days heavy drinking*) ( 4 )

Frequent (*15 days or more per month*) ( 5 )

52. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No

( 1 ) ( 2 )

54. ←

53. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family ...	( 1 )	( 2 )	( 3 )
b. Work .....	( 1 )	( 2 )	( 3 )
c. School .....	( 1 )	( 2 )	( 3 )
d. Medical .....	( 1 )	( 2 )	( 3 )
e. Residence .....	( 1 )	( 2 )	( 3 )
f. Legal/jail .....	( 1 )	( 2 )	( 3 )
g. Financial .....	( 1 )	( 2 )	( 3 )
h. Peer group .....	( 1 )	( 2 )	( 3 )
i. Drug abuse .....	( 1 )	( 2 )	( 3 )
j. Treatment .....	( 1 )	( 2 )	( 3 )
k. Death .....	( 1 )	( 2 )	( 3 )
l. Emotional .....	( 1 )	( 2 )	( 3 )

54. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

55. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**G. Next subsequent phase**

56. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes No

( 1 ) ( 2 )

81. ←

57. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

58. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

59. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

60. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

61. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

62. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

63. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1)
- Occasional (*less than 15 days*) ( 2)
- Weekend mainly ( 3)
- Binge (*at least 3 days heavy drinking*) ( 4)
- Frequent (*15 days or more per month*) ( 5)

64. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1) ( 2)

66. ←

65. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1)	( 2)	( 3)
b. Work . . . . .	( 1)	( 2)	( 3)
c. School . . . . .	( 1)	( 2)	( 3)
d. Medical . . . . .	( 1)	( 2)	( 3)
e. Residence . . . . .	( 1)	( 2)	( 3)
f. Legal/jail . . . . .	( 1)	( 2)	( 3)
g. Financial . . . . .	( 1)	( 2)	( 3)
h. Peer group . . . . .	( 1)	( 2)	( 3)
i. Drug abuse . . . . .	( 1)	( 2)	( 3)
j. Treatment . . . . .	( 1)	( 2)	( 3)
k. Death . . . . .	( 1)	( 2)	( 3)
l. Emotional . . . . .	( 1)	( 2)	( 3)

66. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

67. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %





## NAFLD Database 2

LR - Laboratory Results - Tests Done During  
Screening and Follow-up

**Purpose:** To record archival and current laboratory test results for tests done during both screening and follow-up.

**When:** Visits t0, t048, t096, t144, t192, t240, t288, t336, t384, t432, and t480.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** All laboratory test results are required during screening. Laboratory test results may be obtained from chart review. Complete tests as needed (repeat tests if archival test is not within the required time window). The window for each test is specified next to the date of blood draw. Use calculator if you need to convert units to match the units specified on this form. Call the DCC if you have any questions about conversion or how to record a value. Staple the lab report to the back of this form. If your lab reports values electronically, print a copy of the results and staple the report to the back of this form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date form was initiated*):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: t \_\_\_\_\_

6. Form & revision: 1 r 3

7. Study: NAFLD Database 2 6

## B. Hematology

8. Date of blood draw for complete blood count:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide).*

9. Hemoglobin: \_\_\_\_\_ g/dL

10. Hematocrit: \_\_\_\_\_ %

11. Mean corpuscular volume (MCV): \_\_\_\_\_ fL

## 12. Blood cell count

a. White blood cell count (WBC):

\_\_\_\_\_  $10^3$  cells/ $\mu$ L or  $10^9$  cells/L

b. Red blood cell count (RBC):

\_\_\_\_\_ mill cells/ $\mu$ L

## 13. Platelet count:

\_\_\_\_\_, \_\_\_\_\_ cells/ $\mu$ L

## C. Chemistries and HbA1c

14. Date of blood draw for chemistries:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide).*

15. Blood urea nitrogen (BUN): \_\_\_\_\_ mg/dL

16. Creatinine: \_\_\_\_\_ mg/dL

17. Uric acid: \_\_\_\_\_ mg/dL

18. Date of blood draw for HbA1c:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide).*

19. HbA1c: \_\_\_\_\_ %

**D. Liver panel**

20. Date of blood draw for liver panel:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide).*

21. Bilirubin (total): \_\_\_\_\_ mg/dL

22. Bilirubin (direct): \_\_\_\_\_ mg/dL

23. Aspartate aminotransferase (AST) \_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

24. Alanine aminotransferase (ALT) \_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

25. Alkaline phosphatase \_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

26. Gamma glutamyl transferase (GGT): \_\_\_\_\_ U/L

27. Total protein: \_\_\_\_\_ g/dL

28. Albumin: \_\_\_\_\_ g/dL

29. Prothrombin time (PT): \_\_\_\_\_ sec

30. International normalized ratio (INR): \_\_\_\_\_

**E. Fasting lipid profile**

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.*

31. Was participant fasting for at least 8 hours prior to blood draw: (Yes <sub>1</sub>) (No <sub>\*2</sub>)

*\*12 hour fasting is preferred, but will accept non-fasting lipid values.*

32. Date of blood draw for lipid profile: \_\_\_\_\_  
 day mon year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide).*

a. Triglycerides: \_\_\_\_\_ mg/dL

b. Total cholesterol: \_\_\_\_\_ mg/dL

c. HDL cholesterol: \_\_\_\_\_ mg/dL

d. LDL cholesterol\*: \_\_\_\_\_ mg/dL

*\*Enter "GT" if LDL cannot be calculated due to high triglycerides.*

**F. Fasting glucose and insulin**

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw. These tests are required during screening.*

33. Was participant fasting for at least 8 hours prior to blood draw: (Yes <sub>1</sub>) (No <sub>\*2</sub>)

35. \_\_\_\_\_

*\*Patient must be fasting; 12 hour fast is preferred.*

34. Date of blood draw for fasting glucose and insulin levels:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

*Date must be within the required time window; within 90 days of screening or in the time window for the follow-up visit (check the patient's Database 2 visit time window guide). The serum glucose and insulin value should be obtained from the same blood draw.*

a. Serum glucose: \_\_\_\_\_  
mg/dL

b. Serum insulin: \_\_\_\_\_  
μU/mL

**G. Administrative information**

35. Study Physician PIN: \_\_\_\_\_

36. Study Physician signature:  
\_\_\_\_\_

37. Clinical Coordinator PIN: \_\_\_\_\_

38. Clinical Coordinator signature:  
\_\_\_\_\_

39. Date form reviewed:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year





**e. Hepatitis C virus RNA:**

- Positive  ( 1 )
- Negative  ( 2 )
- Not available  ( 3 )

**f. Hepatitis A virus antibody (anti-HAV, total):**

- Positive  ( 1 )
- Negative  ( 2 )
- Not available  ( 3 )

**C. Iron**

**11. Date of blood draw for iron overload screening:**

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Repeat if date is greater than 5 years prior to screening.*

**a. Iron:** \_\_\_\_\_  $\mu\text{g/dL}$

**b. Total iron binding capacity:** \_\_\_\_\_  $\mu\text{g/dL}$

**c. Ferritin:** \_\_\_\_\_  $\text{ng/mL}$

**12. Is hepatic iron index available:**

- ( Yes ) ( No )
- ( 1 ) ( 2 )
- 14.** \_\_\_\_\_

**13. Hepatic iron index:**

\_\_\_\_\_  $\mu\text{Mol/g/year}$

**D. HFE gene analysis**

**14. Does the patient have an abnormality in an iron overload screening test, a family history of iron overload or hemochromatosis, or histological iron of greater than 3+:**

- ( Yes ) ( No )
- ( 1 ) ( 2 )
- 17.** \_\_\_\_\_

**15. Date of blood draw for HFE gene analysis:**

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

**16. Type of abnormality (WT = wild type; check only one):**

- None  ( 0 )
- C282Y/H63D heterozygote mutation  ( 1 )
- C282Y/C282Y homozygote mutation  ( 2 )
- C282Y/WT heterozygote mutation  ( 3 )
- H63D/WT heterozygote mutation  ( 4 )
- H63D/H63D homozygote mutation  ( 5 )

**E. Ceruloplasmin**

**17. Is patient 40 years old or younger:**

- ( Yes ) ( No )
- ( 1 ) ( 2 )
- 18.** \_\_\_\_\_

**a. Is a ceruloplasmin value available:**

- ( Yes ) ( No )
- ( 1 ) ( 2 )
- 20.** \_\_\_\_\_

**18. Date of blood draw for ceruloplasmin: (required only if patient is 40 years old or younger; record if available if patient is greater than 40 years old):**

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Repeat if date is greater than 10 years prior to screening.*

**19. Ceruloplasmin** \_\_\_\_\_  $\text{mg/dL}$

**a. Upper limit of normal:** \_\_\_\_\_  $\text{mg/dL}$

**b. Lower limit of normal:** \_\_\_\_\_  $\text{mg/dL}$

**F. Alpha-1 antitrypsin**

20. Date of blood draw for alpha-1 antitrypsin (A1AT):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 10 years prior to screening.

21. Alpha-1 antitrypsin (A1AT) \_\_\_\_\_ mg/dL

a. Upper limit of normal: \_\_\_\_\_ mg/dL

b. Lower limit of normal: \_\_\_\_\_ mg/dL

22. A1AT phenotype:

a. Pi Z heterozygote:  
 Yes ( 1 )

No ( 2 )

Unknown ( 3 )

b. Pi ZZ homozygote:  
 Yes ( 1 )

No ( 2 )

Unknown ( 3 )

23. A1AT deficiency (physician judgment):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

**G. Autoantibody studies**

24. Date of blood draw for autoantibody tests:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 5 years prior to screening.

25. Antinuclear antibody (ANA):

Positive ( \* )  
 ( 1 )

Negative ( 2 )

26. \_\_\_\_\_

\*If positive ANA value, complete either a or b depending on laboratory results:

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_

26. Antismooth muscle antibody (ASMA):

Positive ( \* )  
 ( 1 )

Negative ( 2 )

27. \_\_\_\_\_

\*If positive ASMA value, complete either a or b depending on laboratory results:

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_

27. Antimitochondrial antibody (AMA):

Positive ( \* )  
 ( 1 )

Negative ( 2 )

28. \_\_\_\_\_

Age < 18 and not done ( 3 )

28. \_\_\_\_\_

\*If positive AMA value, complete either a or b depending on laboratory results:

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_

28. Is patient 18 or older:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 32. \_\_\_\_\_

29. Lymphocytotoxic antibody (LCA):

Positive ( \* )  
 ( 1 )

Negative ( 2 )

30. \_\_\_\_\_

Not available ( 3 )

30. \_\_\_\_\_

\*If positive LCA value, complete either a or b depending on laboratory results:

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_

**30. Antibody to liver-kidney microsomal antigen (LKM1):**

Positive ( \* )<sub>1</sub>

Negative ( )<sub>2</sub>

**31.**

Not available ( )<sub>3</sub>

**31.**

*\*If positive LKM1 value, complete either a or b depending on laboratory results:*

**a. Titer (record only the denominator):**

1/ \_\_\_\_\_

**b. Units:** \_\_\_\_\_ • \_\_\_\_\_

**31. Rheumatoid factor (RF):**

Positive ( \* )<sub>1</sub>

Negative ( )<sub>2</sub>

**32.**

Not available ( )<sub>3</sub>

**32.**

*\*If positive, record RF value.*

**a. Units:** \_\_\_\_\_ • \_\_\_\_\_

IU/mL

*If results are given as a titer, record as "n" and key the actual result in the General Comments.*

**H. Immunoglobulin levels**

**32. Are immunoglobulin levels available:**

( Yes )<sub>1</sub> ( No )<sub>2</sub>

**37.**

**33. Date of blood draw for immunoglobulin levels:**

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**34. IgA:** \_\_\_\_\_ mg/dL

**35. IgG:** \_\_\_\_\_ mg/dL

**36. IgM:** \_\_\_\_\_ mg/dL

**I. Other screening blood tests**

**37. Date of blood draw for thyroid stimulating hormone (TSH)\*:**

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Repeat if date is greater than 5 years prior to screening. \*Optional if patient under age 18; enter "m" if not done.*

**38. Thyroid stimulating hormone:**

\_\_\_\_\_ • \_\_\_\_\_  
μU/mL

**J. Administrative information**

**39. Study Physician PIN:** \_\_\_\_\_

**40. Study Physician signature:**  
\_\_\_\_\_

**41. Clinical Coordinator PIN:** \_\_\_\_\_

**42. Clinical Coordinator signature:**  
\_\_\_\_\_

**43. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year





13. Attempts made to complete form(s) (*check all that apply*)

- a. Attempted to reschedule procedure: (  )
- b. Attempted to collect interview data by phone from patient/family: (  )
- c. Attempted to gain patient/parent cooperation: (  )
- d. Other (*specify*): (  )

\_\_\_\_\_ specify

**E. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
\_\_\_\_\_

16. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year





12. Temperature (oral or other as appropriate for age):

- a. Degrees: \_\_\_\_\_ °
- b. Scale:  
 Fahrenheit: ( 1 )  
 Centigrade: ( 2 )

13. Blood pressure

- a. Systolic: \_\_\_\_\_ mmHg
- b. Diastolic: \_\_\_\_\_ mmHg

14. Resting radial pulse: \_\_\_\_\_ beats/minute

15. Respiratory rate: \_\_\_\_\_ breaths/minute

**C. Examination findings**

16. Areas with acanthosis nigricans (check all that apply):

- a. None: ( 1 )
- b. Neck: ( 1 )
- c. Axilla: ( 1 )
- d. Elbows: ( 1 )
- e. Knees: ( 1 )
- f. Knuckles: ( 1 )
- g. Periumbilical: ( 1 )

17. Abdomen abnormalities present (check all that apply):

- a. None: ( 1 )
- b. Ascites: ( 1 )
- c. Obese: ( 1 )
- d. Splenomegaly: ( 1 )
- e. Hepatomegaly: ( 1 )

If Yes, span at right midclavicular line:

\_\_\_\_\_ cm

**D. Liver signs**

18. Focused liver signs (check all that apply)

- a. None: ( 1 )
- b. Jaundice: ( 1 )
- c. Palmar erythema: ( 1 )
- d. Contractures: ( 1 )
- e. Pedal edema: ( 1 )
- f. Spider angiomata: ( 1 )
- g. Asterix: ( 1 )
- h. Hepatic encephalopathy: ( 1 )
- i. Other, (specify): ( 1 )

\_\_\_\_\_ specify

**E. Tanner Staging**

19. Is Tanner staging required for this patient (Note: Required during screening if patient is 17 years old or younger.) (check only one):

- Yes, patient has not reached full sexual maturity and is 17 years old or younger: ( 1 )
- No, patient is 18 years old or older: ( 2 )

27. \_\_\_\_\_

No, participant had reached full sexual maturity (Tanner stage 5 on all parameters at screening or for 2 consecutive visits)

( 3 )  
27. \_\_\_\_\_

20. Is the patient female:

- Yes ( 1 )
  - No ( 2 )
23. \_\_\_\_\_

**Male Tanner Staging**

21. Genital stage: \_\_\_\_\_  
1-5

22. Pubic hair stage: \_\_\_\_\_  
1-5

27. \_\_\_\_\_

**Female Tanner Staging**

23. Breast stage: \_\_\_\_\_  
1-5

24. Pubic hair stage: \_\_\_\_\_  
1-5

25. Has menarche occurred:  
( Yes )      ( No )  
  ( 1 )        ( 2 )  
                  27.

26. If yes, what was the patient's age at menarche:  
\_\_\_\_\_ \_\_\_\_\_  
age in years

**F. Administrative information**

27. Study Physician PIN: \_\_\_\_\_

28. Study Physician signature:  
\_\_\_\_\_

29. Clinical Coordinator PIN: \_\_\_\_\_

30. Clinical Coordinator signature:  
\_\_\_\_\_

31. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day                    mon                    year





16. Highest educational level achieved by patient (*show the patient/parent Flash Card #3 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never attended school ( 0 )
- Kindergarten, pre kindergarten, or younger ( 1 )
- Grades 1 to 5 ( 2 )
- Grades 6-8 ( 3 )
- Grades 9-11 ( 4 )
- Completed high school ( 5 )
- Some college or post high school education or training ( 6 )
- Bachelor's degree or higher ( 7 )

17. Is the patient currently employed:  
 ( Yes ( 1 ) No ( 2 ) )  
 20. \_\_\_\_\_

18. What is the patient's current occupation:  
 \_\_\_\_\_  
 specify occupation

19. About how many hours does the patient work each week:  
 \_\_\_\_\_  
 # hours

20. Which of the following categories best characterizes the patient's occupational history (*show the patient/parent Flash Card #4 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never employed ( 0 )
- Laborer ( 1 )
- Clerical ( 2 )
- Professional ( 3 )
- Homemaker ( 4 )
- Other, (*specify*): ( 5 )

\_\_\_\_\_ specify

21. Marital status of the patient (*show the patient/parent Flash Card #5 and ask the respondent to pick the category that describes the patient best; check only one*):

- Single, never married ( 1 )
- Married or living in marriage-like relationship ( 2 )
- Separated, divorced, or annulled ( 3 )
- Widowed ( 4 )

22. Combined annual income before taxes of all members of patient's household (*show the patient/parent Flash Card #6 and ask the respondent to pick the category that describes the patient's combined household income best; check only one*):

- Less than \$15,000 ( 1 )
- \$15,000 - \$29,999 ( 2 )
- \$30,000 - \$49,999 ( 3 )
- \$50,000 or more ( 4 )

**D. Previous registration in a NASH CRN study**

23. Has the patient ever been assigned an ID number in a NASH CRN study:  
 ( Yes ( 1 ) No ( 2 ) )  
 27. \_\_\_\_\_

24. In which NASH CRN studies has the patient previously been registered (*check all that apply*):

- a. Database: ( 1 )
- b. PIVENS: ( 1 )
- c. TONIC: ( 1 )
- d. Other, (*specify*): ( 1 )

\_\_\_\_\_ specify

25. ID Number previously assigned to patient (*record patient ID in item 2*):  
 \_\_\_\_\_

26. Code previously assigned to patient (*record patient code in item 3*):  
 \_\_\_\_\_  
 28. \_\_\_\_\_

**F. ID assignment**

*(If a STOP condition was checked in section B, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.)*

27. Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC      #####, zzz
----------------------

**G. Administrative information**

28. Clinical Coordinator PIN: \_\_\_\_ \_

29. Clinical Coordinator signature:  
\_\_\_\_\_

30. Date form reviewed:  
\_\_\_\_ \_ - \_\_\_\_ \_ - \_\_\_\_ \_  
day mon year



**C. Biopsy specimens and stained slides at the clinical center**

10. Was a sample of liver tissue obtained for banking:

(<sup>Yes</sup>  
\* 1)      (No  
2)

\* If Yes, complete the Liver Tissue Banking (LT) form

11. Is this visit t0 (ie, a patient currently in screening):

(<sup>Yes</sup>  
1)      (No  
2)

14.

12. Were you able to obtain stained slides from this biopsy for local evaluation and were they adequate for scoring:

(<sup>Yes</sup>  
+ 1)      (No  
\* 2)

26.

+ Continue with this form and also complete form HF.

\* This biopsy cannot be used for the NAFLD Database 2.

13. What stained slides from the biopsy are available for local evaluation (check all that apply)

a. H & E stain: ( 1)

b. Masson's trichrome stain: ( 1)

**D. Unstained slides to be sent to the DCC**

14. Are unstained slides available for sending to the DCC:

(<sup>Yes</sup>  
1)      (No  
2)

17.

15. How many unstained slides will be sent to the DCC: \_\_\_\_\_

16. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60)

a. Slide sequence number: \_\_\_\_\_  
01-60

b. Slide sequence number: \_\_\_\_\_  
01-60

c. Slide sequence number: \_\_\_\_\_  
01-60

d. Slide sequence number: \_\_\_\_\_  
01-60

e. Slide sequence number: \_\_\_\_\_  
01-60

f. Slide sequence number: \_\_\_\_\_  
01-60

g. Slide sequence number: \_\_\_\_\_  
01-60

h. Slide sequence number: \_\_\_\_\_  
01-60

i. Slide sequence number: \_\_\_\_\_  
01-60

j. Slide sequence number: \_\_\_\_\_  
01-60

**E. Stained slides to be sent to the DCC**

17. Is the institution's H & E stained slide to be sent to the DCC:

(<sup>Yes</sup>  
1)      (No  
2)

20.

18. Slide sequence number for this slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_ 81-90

19. Is the H & E stained slide to be returned to the clinical center:

(<sup>Yes</sup>  
1)      (No  
2)

20. Is the institution's Masson's trichrome stained slide to be sent to the DCC:

(<sup>Yes</sup>  
1)      (No  
2)

23.

21. Slide sequence number for slide (from the NASH CRN label on the slide - use removable labels, sequence numbers 81-90):

\_\_\_\_\_ 81-90



22. Is the Masson's trichrome slide to be returned to the clinical center:  
 Yes ( 1 )       No ( 2 )

23. Is at least one of the stained slides to be returned to the clinical center (i.e., either item 19 = yes or item 22 = yes):  
 Yes ( 1 )       No ( 2 )  
**26.**

24. When do the stained slides need to be returned to the clinical center (check only one):  
Immediately after central review       ( 1 )  
At the end of the NASH CRN funding period       ( 2 )

25. Which pathology department did these slides come from (check only one):  
NASH CRN clinical center's pathology department       ( 1 )  
Other, (specify): **26.**  ( 2 )

\_\_\_\_\_  
name  
\_\_\_\_\_  
address  
\_\_\_\_\_  
address  
\_\_\_\_\_  
address  
\_\_\_\_\_  
phone

*Note: This is the Database 2 record of the source of the slides, i.e., where the clinical center should send the slides when they are received back from the DCC.*

**F. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Date form reviewed:  
\_\_\_\_-\_\_\_\_-\_\_\_\_  
day mon year

## NAFLD Database 2

## Transfer Notification

**Purpose:** To record a transfer from one center to another center.

**When:** Upon transferring from the current center and prior to the first visit at the adopting center.

**By whom:** Clinical coordinator of each center (current center: sections A-C, adopting center: sections D-E).

**Instruction: For current center:** When patient notifies current center of upcoming transfer, the current clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recent completed HI, LR, and PE forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0932). The DCC will key the form.

**A. Current center and patient identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of notification of intent to transfer:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      n \_\_\_\_\_

6. Form & revision:                      t n 1

7. Study:                      NAFLD Database 2 6

**B. Last followup visit information**

8. Date of last followup visit:  
 \_\_\_\_\_  
 day                      mon                      year

9. Visit ID code of last completed followup visit:  
 \_\_\_\_\_

10. Have cryovial and slide labels been sent to the adopting center:

( Yes )                      ( No )  
 ( 1 )                      ( \* 2 )

\* Send the cryovial and slide labels to the adopting center.

**C. Current center administrative information**

11. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

12. Clinical coordinator PIN: \_\_\_\_\_

13. Clinical coordinator signature:  
 \_\_\_\_\_

**D. Adopting center, patient and visit identification**

14. Adopting center ID: \_\_\_\_\_

15. Patient ID (*must be same as in Section A*):  
 \_\_\_\_\_

16. Patient code (*must be same as in Section A*):  
 \_\_\_\_\_

17. Expected date of first followup visit at adopting center:  
 \_\_\_\_\_  
 day                      mon                      year

18. Visit ID code for expected first followup visit at adopting center:  
 \_\_\_\_\_

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.*

**E. Adopting center administrative information**

19. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

20. Clinical coordinator PIN: \_\_\_\_\_

21. Clinical coordinator signature:  
 \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*

# NASH CRN FLINT

## FLINT Form Abbreviations and Case Report Form Names

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Form	Form Name
AD	AUDIT – Alcohol Use Disorders Identification Test
BG	Baseline History
BP	Blood Processing for Plasma and Serum
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
CV	Cardiovascular Risk Factors
DR	Death Report
HF	Liver Biopsy Histology Findings
HI	Follow-up Medical History
IE	Interim Event Report
LD	Lifetime Drinking History (Skinner)
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
MR	MRI Report
MV	Missed or Incomplete Visit
PE	Physical Examination
PF	Focused Physical Examination
QF	MOS 36-Item Short-Form Health Survey
RC	Rescreen Form
RD	Study Drug Dispensing and Return
RG	Registration
RZ	Randomization Checks
SD	Liver Biopsy Materials Documentation
SR	Serious Adverse Event/IND Safety Report
TN	Transfer Notification

---

FLINT

## AD – Alcohol Use Disorders Identification Test (AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Screening visit s.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient.

**Instructions:** Flash Card #9, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. The patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator then should complete section B below.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

5. Visit code:   s   \_\_\_\_\_

6. Form & revision:   a     d     1  

7. Study: FLINT   7  

### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the questionnaire completed:

Self-administered by patient (   1   )  
 Interview with translator (   2   )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-10 are for clinical center use only*).

11. How often do you have a drink containing alcohol?

- |       |                    |                              |                              |                              |
|-------|--------------------|------------------------------|------------------------------|------------------------------|
| Never | Monthly<br>or less | Two to four<br>times a month | Two to three<br>times a week | Four or more<br>times a week |
| ( 0 ) | ( 1 )              | ( 2 )                        | ( 3 )                        | ( 4 )                        |
- ↳ **21.**

12. How many drinks containing alcohol do you have on a typical day when you are drinking?

- |        |        |        |        |            |
|--------|--------|--------|--------|------------|
| 1 or 2 | 3 or 4 | 5 or 6 | 7 to 9 | 10 or more |
| ( 0 )  | ( 1 )  | ( 2 )  | ( 3 )  | ( 4 )      |

13. How often do you have six or more drinks on one occasion?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

14. How often during the last year have you found that you were not able to stop drinking once you had started?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

15. How often during the last year have you failed to do what was normally expected from you because of drinking?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

16. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

17. How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

18. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0 )	( 1 )	( 2 )	( 3 )	( 4 )

19. Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

20. Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0 )	( 1 )	( 2 )

21. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**





16. Is the patient female and of childbearing potential:  
 (Yes) (1) (No) (2)  
 20.

17. Is the patient currently pregnant:  
 (Yes) (1) (No) (2)  
  **Elig**

18. Is the patient currently breast feeding:  
 (Yes) (1) (No) (2)  
  **C**

*\*Caution: Patient cannot be breastfeeding at time of randomization.*

19. Is the patient willing to use effective birth control methods during FLINT:  
 (Yes) (1) (No) (2)  
  **Elig**

**D. Medical history**  **C** means Caution; condition is exclusionary if study physician agrees with diagnosis;  **Elig** means the patient is ineligible and can not enroll in FLINT)

20. Has the patient ever been diagnosed with any of the following (check all that apply; source of information can be interview and/or chart review)

- a. Diabetes type 1: ( )
- b. Diabetes type 2: ( )
- c. Chronic hepatitis B:  **Elig**
- d. Hepatitis C:  **Elig**

e. Active autoimmune hepatitis:  **C**

f. Autoimmune cholestatic liver disorder (PBC):  **C**

g. Wilson's disease:  **C**

h. Alpha-1-antitrypsin (A1AT) deficiency:  **C**

i. Glycogen storage disease: ( )

j. Iron overload:  **C**

k. Hemochromatosis:  **Elig**

l. Polycystic liver disease:  **C**

m. Biliary diversion:  **Elig**

n. Primary sclerosing cholangitis:  **Elig**

o. Drug induced liver disease:  **Elig**

p. Bile duct obstruction:  **Elig**

q. Gilbert's syndrome: ( )

r. Esophageal or gastric varices on endoscopy:  **Elig**

s. Bleeding from varices:  **Elig**

t. Other gastrointestinal bleeding:  **C**

u. Ascites:  **Elig**

v. Edema: ( )

w. Hepatic encephalopathy:  **Elig**

x. Portal hypertension:  **Elig**

- y. Hepatorenal syndrome:  ( 1 )
- z. Hepatopulmonary syndrome:  ( 1 )
- aa. Short bowel syndrome:  ( 1 )
- ab. Hemophilia (*bleeding disorder*):  ( 1 )
- ac. HIV positive:  ( 1 )
- ad. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: ( 1 )
- ae. Endocrine disease (*hormonal abnormality*): ( 1 )
- af. Hepatocellular carcinoma:  ( 1 )
- ag. Other malignancy (*cancer*): ( 1 )
- ah. Peripheral neuropathy: ( 1 )
- ai. Seizure disorder or epilepsy: ( 1 )
- aj. Drug allergies: ( 1 )
- ak. Hypothyroidism: ( 1 )
- al. Hypertension: ( 1 )
- am. Cerebrovascular disease: ( 1 )
- an. Chronic cholestasis: ( 1 )
- ao. Hyperlipidemia (*high cholesterol, high triglycerides*): ( 1 )
- ap. Pancreatitis: ( 1 )
- aq. Cholelithiasis: ( 1 )
- ar. Coronary artery disease: ( 1 )
- as. Congestive heart failure: ( 1 )
- at. Elevated uric acid such as gout: ( 1 )
- au. Kidney disease: ( 1 )
- av. Polycystic ovary syndrome: ( 1 )
- aw. Sleep apnea (*not breathing during sleep*): ( 1 )
- ax. Dermatologic disorders: ( 1 )
- ay. Myopathy: ( 1 )
- az. Myositis: ( 1 )

- ba. Major depression: ( 1 )
- bb. Schizophrenia: ( 1 )
- bc. Bipolar disorder: ( 1 )
- bd. Obsessive compulsive disorder: ( 1 )
- be. Severe anxiety or personality disorder: ( 1 )
- bf. Substance abuse:  ( 1 )
- bg. Other (*specify*): ( 1 )

\_\_\_\_\_ specify  
**bh. None of the above:** ( 1 )

**21. Has the patient ever had surgery for any of the following (*check all that apply*)**

- a. Stapling or banding of the stomach:  ( 1 )
- b. Jejunioileal (*or other intestinal*) bypass prior to the diagnosis of NAFLD:  ( 1 )
- c. Biliopancreatic diversion:  ( 1 )
- d. Other GI or bariatric surgery (*specify*):  ( 1 )

\_\_\_\_\_ specify  
**e. None of the above:** ( 1 )

**22. Is the patient currently undergoing evaluation for bariatric surgery:**  
 ( Yes 1 ) ( No 2 )  
 ( 1 )  ( 2 )

**23. Organ, limb, or bone marrow transplant**

- a. Has the patient ever received a liver transplant:  
 ( Yes 1 ) ( No 2 )  
 ( 1 )  ( 2 )

- b. Has the patient ever received any other organ, limb, or bone marrow transplant:  
 ( Yes 1 ) ( No 2 )

**E. Drugs historically associated with NAFLD**

**24.** Has the patient used any of the following in the past year (*check all that apply*)

- a. Amiodarone (Pacerone): (  )
- b. Demeclocycline (Declomycin): (  )
- c. Divalproex (Depakote): (  )
- d. Doxycycline (Monodox): (  )
- e. Methotrexate (Rheumatrex): (  )
- f. Minocycline (Dynacin, Minocin): (  )
- g. Oxytetracycline (Terramycin): (  )
- h. Tetracycline (Achromycin): (  )
- i. Valproate sodium (Depacon): (  )
- j. Valproic acid (Depakene): (  )
- k. Other known hepatotoxin #1 (*specify*): (  )

\_\_\_\_\_

l. Other known hepatotoxin #2 (*specify*): (  )

\_\_\_\_\_

m. Other known hepatotoxin #3 (*specify*): (  )

\_\_\_\_\_

n. None of the above: (  )

**25.** Were any of the items on 24a-m checked:

(  <sup>Yes</sup> ) (  <sup>No</sup> )

*\*Caution: Use of any of these drugs for more than 2 weeks in the past year is exclusionary.*

**26.** Has the patient taken any systemic glucocorticoids in the past year (*check all that apply*):

- a. Betamethasone sodium (Celestone): (  )
- b. Cortisol: (  )
- c. Cortisone: (  )
- d. Dexamethasone (Decadron): (  )
- e. Hydrocortisone (Hydrocortone): (  )
- f. Methylprednisolone (Solu-Medrol): (  )
- g. Prednisolone (Prelone): (  )
- h. Prednisone: (  )
- i. Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
- j. Other, (*specify*): (  )

\_\_\_\_\_

k. Other, (*specify*): (  )

\_\_\_\_\_

l. None of the above: (  )

**27.** Were any of the items 26a-k checked:

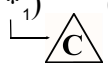
(  <sup>Yes</sup> ) (  <sup>No</sup> )

*\*Caution: Use of systemic glucocorticoids for more than 2 weeks in the past year is exclusionary.*

- 28. Has the patient taken any estrogen, progestin, anabolic steroids, hormone replacement therapy, or selective estrogen receptor modulators in the past year (*check all that apply*):
  - a. Boldenone undecylenate (Equipoise): (  )
  - b. Conjugated estrogen (Premarin/Prempro): (  )
  - c. Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
  - d. Esterified estrogen (Estratab, Menest): (  )
  - e. Estradiol (Estrace): (  )
  - f. Ethinyl estradiol (Estinyl): (  )
  - g. Fluoxymesterone (Android-F, Halotestin): (  )
  - h. Levonorgestrel (Norplant): (  )
  - i. Medroxyprogesterone (Cycrin, Provera): (  )
  - j. Megestrol (Megace): (  )
  - k. Methandrostenolone (Dianabol): (  )
  - l. Methyltestosterone (Android): (  )
  - m. Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
  - n. Norethindrone (Micronor): (  )
  - o. Norgestrel (Ovrette): (  )
  - p. Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
  - q. Oxandrolone (Oxandrin): (  )
  - r. Oxymetholone (Anadrol): (  )
  - s. Progesterone (Prometrium): (  )
  - t. Raloxifene (Evista): (  )
  - u. Stanzolol (Winstrol): (  )
  - v. Tamoxifen (Nolvadex): (  )
  - w. Testosterone (Depo-Testosterone): (  )

- x. Other, (*specify*): (  )  
\_\_\_\_\_
- y. Other, (*specify*): (  )  
\_\_\_\_\_
- z. None of the above: (  )

29. Were any of the items 28a-y checked:

Yes (  )  
 No (  )  


*\*Caution: Use of anabolic steroids, tamoxifen, or estrogens at doses greater than those used for hormone replacement for more than 2 weeks in the past year is exclusionary.*

**F. Use of antiNASH drugs and supplements**

30. Has the patient taken any of these antiNASH drugs in the past 6 months:

Yes (  )  
 No (  )  
 31.

(If yes, check all that apply):

- a. Betaine (Cystadone): (  )
- b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- c. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol): (  )
- d. S-adenylmethionine (SAM-e): (  )
- e. Milk thistle: (  )
- f. Probiotics (*any form*): (  )
- g. Other (*specify*): (  )  
\_\_\_\_\_

specify

31. Has the patient taken a thiazolidinedione in the past 6 months:

Yes (  )  
 No (  )

**G. Use of antiobesity drugs**

**32.** Has the patient taken any antiobesity medications in the past 6 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**33.**

*(If yes, check all that apply):*

- a.** Dexfenfluramine hydrochloride (Redux): (  )
- b.** Fenfluramine hydrochloride (Pondimin): (  )
- c.** Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d.** Orlistat (Xenical): (  )
- e.** Phendimetrazine tartrate (Adipost, Bontril): (  )
- f.** Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g.** Sibutramine hydrochloride monohydrate (Meridia): (  )
- h.** Other, *(specify)*: (  )

---

- i.** Other, *(specify)*: (  )

---

**H. Use of antidependency drugs**

**33.** Has the patient taken any alcohol abuse, inhaled or injection drugs (dependence or withdrawal) medications in the past 12 months *(check all that apply)*:

- a.** Chlordiazepoxide (Librium): (  )
- b.** Clorazepate dipotassium (Tranxene): (  )
- c.** Diazepam (Valium): (  )
- d.** Disulfiram (Antabuse): (  )
- e.** Hydroxyzine pamoate (Vistaril): (  )
- f.** Naltrexone hydrochloride (Revia): (  )
- g.** Other, *(specify)*: (  )

---

- h.** None of the above: (  )

**34.** Were any of the items 33a-g checked:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )

**C**

*\*Caution: Active substance abuse, such as alcohol use or inhaled or injection drugs, in the year prior to screening is exclusionary.*

**I. Use of other medications and supplements**

**35.** Has the patient used any antidiabetic medications in the past 6 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**36.**

*(If yes, check all that apply):*

- a.** Metformin (Glucophage, Glucophage XR): (  )
- b.** Acarbose (Precose): (  )
- c.** Acetohexamide (Dymelor): (  )
- d.** Chlorpropamide (Diabinese): (  )
- e.** Glimepiride (Amaryl): (  )
- f.** Glipizide (Glucotrol, Glucotrol XL): (  )
- g.** Glyburide (Micronase, DiaBeta, Glynase): (  )
- h.** Insulin: (  )
- i.** Miglitol (Glycet): (  )
- j.** Nateglinide (Starlix): (  )
- k.** Pioglitazone (Actos): (  )
- l.** Repaglinide (Prandin): (  )
- m.** Rosiglitazone (Avandia): (  )
- n.** Tolazamide (Tolinase): (  )
- o.** Tolbutamide (Orinase): (  )
- p.** Other, *(specify)*: (  )

---

**36.** Has the patient taken any cardiovascular/antihypertensive medications in the past 6 months:

( Yes ) ( No )  
                  ( 1 ) ( 2 )

**37.**

*(If yes, check all that apply):*

- a.** Amlodipine besylate (Norvasc): (  )
- b.** Aspirin - 81 mg: (  )
- c.** Atenolol (Tenormin): (  )
- d.** Benazepril (Lotensin): (  )
- e.** Captopril (Capoten): (  )
- f.** Clonidine (Catapres): (  )
- g.** Digoxin (Lanoxin): (  )
- h.** Diltiazem (Cardizem): (  )
- i.** Doxazosin (Cardura): (  )
- j.** Enalapril (Vasotec): (  )
- k.** Felodipine (Plendil): (  )
- l.** Furosemide (Lasix): (  )
- m.** Hydrochlorothiazide (Esidrix, HydroDIURIL): (  )
- n.** Hydrochlorothiazide + triamterene (Dyazide): (  )
- o.** Lisinopril (Prinivil, Zestril): (  )
- p.** Losartan potassium (Cozaar): (  )
- q.** Losartan potassium with hydrochlorothiazide (Hyzaar): (  )
- r.** Metoprolol (Lopressor): (  )
- s.** Nifedipine (Adalat, Procardia): (  )
- t.** Perhexiline maleate: (  )
- u.** Propranolol (Inderal): (  )
- v.** Quinapril (Accupril): (  )
- w.** Terazosin (Hytrin): (  )
- x.** Timolol maleate (Blocadren): (  )
- y.** Valsartan (Diovan): (  )
- z.** Verapamil (Calan): (  )
- aa.** Other, *(specify)*: (  )

**ab.** Other, *(specify)*: (  )

**37.** Has the patient taken any antihyperlipidemic medications in the past 6 months:

( Yes ) ( No )  
                  ( 1 ) ( 2 )

**38.**

*(If yes, check all that apply):*

- a.** Atorvastatin (Lipitor): (  )
- b.** Colestipol hydrochloride (Colestid): (  )
- c.** Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): (  )
- d.** Gemfibrozil (Gen-Fibro, Lopid): (  )
- e.** Fenofibrate (Tricor): (  )
- f.** Fluvastatin sodium (Lescol): (  )
- g.** Lovastatin (Mevacor): (  )
- h.** Nicotinic acid (Niaspan): (  )
- i.** Pravastatin sodium (Pravachol): (  )
- j.** Rosuvastatin (Crestor): (  )
- k.** Simvastatin (Zocor): (  )
- l.** Other, *(specify)*: (  )

**38.** Has the patient taken any vitamins in the past 6 months:

( Yes ) ( No )  
                  ( 1 ) ( 2 )

**39.**

*(If yes, check all that apply):*

- a.** Vitamin B (any type): (  )
- b.** Vitamin C: (  )
- c.** Vitamin D: (  )
- d.** Vitamin E: (  )
- e.** Multivitamin: (  )
- f.** Other, *(specify)*: (  )

39. Has the patient taken any supplements in the past 6 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

40.

*(If yes, check all that apply):*

- a. Alpha-lipoic acid: ( 1 )
  - b. Alpha-tocopherol: ( 1 )
  - c. Beta-carotene: ( 1 )
  - d. Betaine (Cystadane): ( 1 )
  - e. Calcium (any form): ( 1 )
  - f. Carnitine (any form): ( 1 )
  - g. Chondroitin (any form): ( 1 )
  - h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): ( 1 )
  - i. Cod liver oil: ( 1 )
  - j. Coenzyme Q: ( 1 )
  - k. Dichloroacetate: ( 1 )
  - l. Echinacea: ( 1 )
  - m. Fish oil (any form): ( 1 )
  - n. Flax seed oil: ( 1 )
  - o. Garlic: ( 1 )
  - p. Ginkgo biloba: ( 1 )
  - q. Glucosamine (any form): ( 1 )
  - r. Lecithin: ( 1 )
  - s. Magnesium: ( 1 )
  - t. N-acetyl-cysteine: ( 1 )
  - u. Potassium (any form): ( 1 )
  - v. Saw palmetto: ( 1 )
  - w. Selenium: ( 1 )
  - x. St. John's Wort: ( 1 )
  - y. Taurine: ( 1 )
  - z. Zinc picolinate: ( 1 )
  - aa. Other, *(specify)*: ( 1 )
- 
- ab. Other, *(specify)*: ( 1 )
- 

40. Has patient taken any of the following medications or other supplements/medications in the past 6 months:

( Yes ) ( No )  
 ( 1 ) ( 2 )

41.

*(If yes, record all other supplements/medications):*

- a. Isotretinoin (Accutane): ( 1 )
  - b. Levothyroxine (Levoxyl, Synthroid): ( 1 )
  - c. Liothyronine (Cytomel): ( 1 )
  - d. Penicillamine (Cuprimine, Depen): ( 1 )
  - e. Trientine hydrochloride (Syprine): ( 1 )
  - f. Other, *(specify)*: ( 1 )
- 
- g. Other, *(specify)*: ( 1 )
- 
- h. Other, *(specify)*: ( 1 )
- 
- i. Other, *(specify)*: ( 1 )
- 
- j. Other, *(specify)*: ( 1 )
- 
- k. Other, *(specify)*: ( 1 )
-

**J. Administrative information**

41. Study Physician PIN: \_\_\_\_\_

42. Study Physician signature:  
\_\_\_\_\_

43. Clinical Coordinator PIN: \_\_\_\_\_

44. Clinical Coordinator signature:  
\_\_\_\_\_

45. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year



## FLINT

## BP - Blood Processing for Plasma and Serum

**Purpose:** Document collection of fasting blood for separation of plasma and serum.

**When:** Visits s, f12, f24, f36, f48, f60, f72 and f96.

**By whom:** Clinical Coordinator and laboratory personnel responsible for collection and processing of blood.

**Instructions:** Label tubes of blood using MACO labels specific for the patient and visit; these labels are generated by the clinical center upon registration (screening visit labels) or after enrollment (follow-up visit labels). Attach duplicate blood tube labels in items 11 and 13. Choose one of the cryovial label sets provided by the DCC for this patient for use with this visit. Label 2.0 mL cryovials with numbered patient-specific plasma (green-top) and serum (red-top) cryovial labels provided by the DCC. Affix plasma aliquot #00 label and serum aliquot #00 label to this form in item 18.

**Screening and f72:**

**For plasma:** Fill **one** 10 mL green top heparin tube with blood. Process blood for plasma within 30 minutes according to procedures specified in the FLINT SOP I, section 6. After separation, prepare up to 10 aliquots of plasma: pipette 0.5 mL of plasma to each prelabeled 2.0 mL cryovial. Immediately freeze labeled aliquots of plasma at -70 C.

**For serum:** Fill **two** 10 mL SST red-gray top tubes with blood. Process blood for serum within two hours according to procedures specified in the FLINT SOP I, section 6. After separation, prepare up to 20 aliquots of serum: pipette 0.5 mL of serum to each prelabeled 2.0 mL cryovial. Immediately freeze labeled aliquots of serum at -70 C.

**Follow-up visits f12, f24, f36, f48, f60, f96:**

**For plasma:** Fill **one** 10 mL green top heparin tube with blood. Process blood for plasma within 30 minutes according to procedures specified in the FLINT SOP I, section 6. After separation, prepare up to 10 aliquots of plasma: pipette 0.5 mL of plasma to each prelabeled 2.0 mL cryovial. Immediately freeze labeled aliquots of plasma at -70 C.

**For serum:** Fill **one** 10 mL SST red-gray top tube with blood. Process blood for serum within two hours according to procedures specified in the FLINT SOP I, section 6. After separation, prepare up to 10 aliquots of serum: pipette 0.5 mL of serum to each prelabeled 2.0 mL cryovial. Immediately freeze labeled aliquots of serum at -70 C.

**NOTE:** Immediately upon completion of plasma and serum aliquot preparation, destroy any leftover cryovial labels from the label set used at this visit; use of these cryovial labels at any other visit will result in aliquots from both visits being unusable since the visit at which they were collected will not be able to be determined.

**A. Center, patient and visit identification**

1. Center code: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:  b   p   2

7. Study: FLINT  7

**B. Processing whole blood**

*Plasma and serum aliquots are to be separated from blood per instructions in the SOP I. Draw fasting blood in the morning.*

8. Was participant fasting for at least 8 hours prior to blood draw:  
 Yes (  1  ) No (  \* 2  )

23. \_\_\_\_\_

*\*Patient must be fasting.*

a. Was blood collected for the NIDDK Biosample Repository:

Yes (  1  )  
 No, (specify): (  \* 2  )

23. \_\_\_\_\_

specify reason

*\*If patient did not come to clinic for visit, complete the MV form instead of the BP form*

9. Date and time of blood draw

a. Date:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

b. Time:  
 \_\_\_\_\_ : \_\_\_\_\_ (  1  ) (  2  )  
 hour minute am pm







13. Other information related to consent for genetic research that clinic staff feel needs to be keyed to the study database (e.g., if your genetic consent had other options that are not covered by the 3 categories of use of samples specified above):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. Attach form copy of tube label:

FLINT Form CG  
Pt: ccc- 9999, xyz  
Gender  
Age, yrs.: XX

19. Phlebotomist:

\_\_\_\_\_ print name

14. In your judgment, has the patient consented to collection of blood for DNA banking (this question is asked in recognition that not all IRBs will have approved consent statements that include language that can be mapped into the questions in items 10 through 12; a response of "No" to this question (item 14) means that blood should NOT be collected for sending to the Genetics Repository and if already collected, should be destroyed by the Genetics Repository):

Yes ( 1 ) No ( 2 )

20. \_\_\_\_\_

D. Administrative information

20. Study Physician PIN: \_\_\_\_\_

21. Study Physician signature: \_\_\_\_\_

22. Clinical Coordinator PIN: \_\_\_\_\_

23. Clinical Coordinator signature: \_\_\_\_\_

C. Specimen for Genetics Repository

Attach ID labels to two 10mL EDTA tubes and fill each with blood; invert each tube gently 6 times to mix blood with additives; keep tubes at room temperature until the same day shipment to the NIDDK Genetics Repository.

15. Was blood collected today for the NIDDK Genetics Repository:

Yes ( 1 )

16. \_\_\_\_\_

No, (specify): ( 2 )

\_\_\_\_\_ specify

20. \_\_\_\_\_

16. Date and time of blood draw

a. Date:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

b. Time:

\_\_\_\_\_ hour : \_\_\_\_\_ minute ( 1 ) ( 2 )  
am pm

17. Number of 10 mL EDTA tubes: \_\_\_\_\_

24. Date form reviewed:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## FLINT

## CO - Closeout Form

**Purpose:** To close out a patient's participation in FLINT and document the patient's consent to join or re-enter the NAFLD Adult Database 2 study.

**When:** At f96 visit or at the close of the f96 window.

**Respondent:** Clinical coordinator.

**Instructions:** Complete this form for each patient randomized in FLINT at the f96 visit or at the close of the f96 window. Determine if the patient now wants to re-enter or join the NAFLD Adult Database 2. Schedule the patient for a NAFLD Adult Database 2 follow-up visit approximately 12 months from this visit.

(1) Patients previously enrolled in the NAFLD Adult Database 2: consult the NAFLD Adult Database 2 visit schedule generated at NAFLD enrollment and use the visit window that is open in 12 months.

(2) Patients NOT previously enrolled in the NAFLD Adult Database 2: if patient is willing to join the NAFLD Adult Database 2, a visit schedule will be generated upon keying this form. Schedule the participant approximately 12 months from their FLINT f96 visit for their t144 NAFLD Adult Database 2 follow-up visit.

### A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: f 9 6

6. Form & revision: c o 1

7. Study: FLINT 7

### B. Database participation

8. Does the patient wish to re-enter or join the NAFLD Adult Database 2:

Yes ( \* 1 )      No ( + 2 )

11.

9. Has the patient signed the latest version of the NAFLD Adult Database 2 informed consent:

Yes ( 1 )      No ( \* 2 )



\* Patient must sign the informed consent

10. Was the patient enrolled in the NAFLD Adult Database 2 previously:

Yes ( \* 1 )      No ( + 2 )

\* Schedule the patient's next NAFLD Adult Database 2 follow-up visit approximately 12 months from the date in item 4. Consult the patient's NAFLD Database 2 visit schedule and use the NAFLD Adult Database 2 visit open on that date.  
 + Data system will generate a visit window schedule assigning the FLINT randomization date as the NAFLD Adult Database 2 enrollment date. Schedule the patient approximately 12 months from the date in item 4 for their t144 NAFLD Adult Database 2 follow-up visit.

### C. Administrative information

11. Clinical Coordinator PIN: \_\_\_\_\_

12. Clinical Coordinator signature: \_\_\_\_\_

13. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

### Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.

**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.

**By whom:** Data Coordinating Center staff.

**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c r 2** 6. Form and revision
- \_\_\_ 7. Study: **6**=Database 2; **7**=FLINT
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- \_\_\_ \_\_\_ 9. Sequence number for
  - ... a. H & E stained slide
  - \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
  - \_\_\_ \_\_\_ ... c. Iron stained slide

**C. Adequacy of biopsy**

- \_\_\_ \_\_\_ 10. Biopsy length (mm)
- \_\_\_ 11. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_\_\_ 12. Followup with clinic (*Specify*):

**D. Histology**

**H & E stain**

13. Steatosis (assume macro, e.g., large and small droplet)

- \_\_\_ \_\_\_ ... a. Grade: **0**=<5%; **1**=5-33%; **2**=34-66%; **3**=>66%
- \_\_\_ \_\_\_ ... b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar
- \_\_\_ \_\_\_ ... c. Type of macrovesicular steatosis: **0**=Predominantly large droplet; **1**=Mixed large and small droplet; **2**=Predominantly small droplet
- \_\_\_ \_\_\_ ... d. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

## 14. Inflammation

- ... a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0=0; 1=<2 under 20x mag; 2=2-4 under 20 mag; 3=>4 under 20 mag**
- ... b. Microgranulomas seen: **0=No; 1=Yes**
- ... c. Large lipogranulomas seen: **0=No; 1=Yes**
- ... d. Amount of portal, chronic inflammation: **0=None; 1=Mild; 2=More than mild**

## 15. Liver cell injury

- ... a. Ballooning: **0=None → GOTO Item 15d; 1=Few; 2=Many**
- ... b. Severe ballooning present: **0=No; 1=Yes**
- ... c. Classical balloon cells present: **0=No; 1=Yes**
- ... d. Acidophil bodies: **0=Rare/absent; 1=Many**
- ... e. Pigmented macrophages (*Kupffer cells*): **0=Rare/absent; 1=Many**
- ... f. Megamitochondria: **0=Rare/absent; 1=Many**

16. Mallory-Denk bodies: **0=Rare/absent; 1=Many**

17. Glycogen nuclei: **0=Rare/absent; 1=Present in patches**

18. Glycogenosis of hepatocytes: **0=Not present; 1=Focal, involving less than 50% of the hepatocytes; 2=Diffuse, involving greater than or equal to 50% of the hepatocytes**

## 19. Masson's trichrome stain

- ... a. Fibrosis stage: **0=None → GOTO Item 20; 1a=Mild, zone 3 perisinusoidal (requires trichrome); 1b=Moderate, zone 3, perisinusoidal (does not require trichrome); 1c=Portal/periportal only; 2=Zone 3 and periportal, any combination; 3=Bridging; 4=Cirrhosis**
- ... b. Perisinusoidal fibrosis grade: **0=No perisinusoidal fibrosis present; 1=Perisinusoidal fibrosis present that requires a Masson stain to identify; 2=Perisinusoidal fibrosis present that is visible on the H&E stain**
- ... c. Predominant location of fibrosis: **0=More predominance around or between portal areas; 1=No portal or central predominance; 2=More predominance around/between central veins**

## 20. Iron stain

- ... a. Hepatocellular iron grade: **0=Absent or barely discernible, 40x → GOTO item 20c; 1=Barely discernible granules, 20x; 2=Discrete granules resolved, 10x; 3=Discrete granules resolved, 4x; 4=Masses visible by naked eye**
- ... b. Hepatocellular iron distribution: **0=Periportal; 1=Periportal and midzonal; 2=Panacinar; 3=Zone 3 or azonal**
- ... c. Nonhepatocellular iron grade: **0=None → GOTO item 21; 1=Mild; 2=More than mild**
- ... d. Nonhepatocellular iron distribution: **0=Large vessel endothelium only; 1=Portal/fibrosis bands only, but more than just in large vessel endothelium; 2=Intraparenchymal only; 3=Both portal and intraparenchymal**

21. Is this steatohepatitis? **99=Not NAFLD; 0=NAFLD, not NASH; 1a=Suspicious/borderline/indeterminate: Zone 3 pattern; 1b=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; 2=Yes, definite**

22. Is cirrhosis present? **0=No → GOTO item 25; 1=Yes**

23. Is this cryptogenic cirrhosis: **0=No → GOTO item 25; 1=Yes**

24. Features suggestive of steatohepatitis etiology for cryptogenic cirrhosis:

- ... a. Mallory-Denk bodies (*rule out cholate stasis*): **0=Absent; 1=Present**
- ... b. Perisinusoidal fibrosis away from septa: **0=Absent; 1=Present**
- ... c. Hepatocyte ballooning: **0=Absent; 1=Present**
- ... d. Megamitochondria: **0=Absent; 1=Present**
- ... e. Other notable findings: **0=Absent; 1=Present; Specify: \_\_\_\_\_**

25. Other comments: \_\_\_\_\_



## FLINT

## Cardiovascular Risk Factors

**Purpose:** To determine a patient's need for referral for cholesterol management based on the Adult Treatment Panel III (ATP III) cholesterol guidelines.

**When:** Visits s, f24, f48, f72, and f96.

**Administered by:** Clinic coordinator by interview with patient and medical chart review.

**Instructions:** Collect information by interview, chart review, and by transcribing data from the FLINT Physical Examination (PE), Laboratory Results (LR), and Baseline (BG) or Follow-up (HI) Medical History forms. The anthropometric, blood pressure, and laboratory values reported on this form should be those collected at the same visit.

**Important: Key the CV form only after you have keyed the BG/HI, LR, and PE forms.**

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code: \_\_\_\_\_

6. Form & revision:      c   v   1

7. Study:                      FLINT 7

## B. Smoking history

8. Is this the first time a smoking history has been obtained in FLINT on a CV form:

( Yes )      ( No )  
 ( 1 )      ( 2 )  
 14. \_\_\_\_\_

9. Have you ever smoked tobacco cigarettes:

Never                      ( 1 )

In the past, but not anymore      ( 2 )

Currently smokes cigarettes      ( \* 3 )

*\*The patient smoked at least one cigarette in past month.*

10. Do you/did you smoke cigarettes regularly:

( Yes )      ( No )  
 ( 1 )      ( \* 2 )

15. \_\_\_\_\_

*\*Less than 2 packs of cigarettes in a lifetime or less than 1 cigarette a day for one year.*

11. How old were you when you first started regular cigarette smoking: \_\_\_\_\_  
 years

12. How old were you when you (last) stopped smoking cigarettes (code as "n" if the patient did not stop smoking):

\_\_\_\_\_  
 years

13. On the average of the entire time that you smoked cigarettes, how many cigarettes did you smoke per day:

\_\_\_\_\_  
 cigarettes/day

## C. Framingham Risk Assessment

14. Are you a current cigarette smoker:

( Yes )      ( No )  
 ( 1 )      ( 2 )

15. Gender

Male                      ( 1 )

Female                      ( 2 )

16. Age: \_\_\_\_\_  
 years

If lipid panel was not obtained, skip to item 27.

17. Total cholesterol (from LR form):

\_\_\_\_\_ mg/dL

If the patient has total cholesterol greater than 300 mg/dL, an IE form should be completed.

18. HDL cholesterol (from LR form):

\_\_\_\_\_ mg/dL

19. LDL cholesterol (from LR form)\*:

\_\_\_\_\_ mg/dL

\*Enter "GT" if LDL cannot be calculated due to high triglycerides.

20. Systolic blood pressure (from PE form):

\_\_\_\_\_ mmHg

21. Diastolic blood pressure (from PE form):

\_\_\_\_\_ mmHg

22. Are you currently being treated for high blood pressure with medicine prescribed by your doctor:

Yes ( 1 ) No ( 2 )

23. Has anyone in your immediate family (blood-related parent, brother, sister, or child) been diagnosed with early heart disease (before age 55 years for male relatives and before 65 years for female relatives):

Yes ( 1 ) No ( 2 )

24. Framingham point scores (use the ATP III At-a-Glance Quick Desk Reference [NIH Publication No. 01-3305] on page 5 to record gender-specific scores based on the patients risk factors. Circle "+" or "-" as appropriate. Key "+#" or "-#"; if 0 for an item with +/-, key "+0" or "+00".)

a. Age score (based on item 16): +/- \_\_\_\_\_ points

b. Total cholesterol score (based on items 16 and 17): \_\_\_\_\_ points

c. Smoking score (based on items 9 or 14, and 16): \_\_\_\_\_ points

d. HDL score (based on item 18): +/- \_\_\_\_\_ points

e. Systolic blood pressure score (based on items 20 and 22): \_\_\_\_\_ points

25. Point total (Add items 24a-e): + / - \_\_\_\_\_ points

26. Framingham risk of heart attack or dying of coronary heart disease in the next 10 years (using the ATP-III at-a-glance publication on page 5, use the point total [item 25] to convert into gender-specific 10 year risk):

\_\_\_\_\_ %

If 10 year risk < 1, record "00". If 10 year risk ≥ 30, record "30".

**D. ATP III guidelines**

27. Have you been diagnosed with type 1 or type 2 diabetes:

Yes ( 1 ) No ( 2 )

28. Have you been diagnosed with clinical atherosclerotic disease that confers high risk for coronary heart disease (CHD) events (CHD risk equivalent):

Yes ( 1 ) No ( 2 )

**29.** \_\_\_\_\_

(If yes, check all that apply)

- a. Clinical CHD: ( 1 )
- b. Symptomatic carotid artery disease: ( 1 )
- c. Peripheral arterial disease: ( 1 )
- d. Abdominal aortic aneurysm: ( 1 )

29. Was “Yes” checked for either item 27 or 28 or was LDL unknown (“GT” in item 19 or lipid panel not obtained):

Yes ( 1 )      No ( 2 )

31.

30. Is 10-year Framingham heart attack risk estimate 22% (item 26) or more:

Yes ( 1 )      No ( 2 )

33.

31. Is LDL cholesterol (item 19) less than 100 mg/dL or was LDL unknown (“GT” in item 19 or lipid panel not obtained):

Yes ( 1 )      No ( 2 )

40.

32. Is LDL cholesterol (item 19) 130 mg/dL or more:

Yes ( \* 1 )      No ( \* 2 )

40.       40.

*\*Refer for cholesterol management with LDL-lowering drug therapy (see FLINT SOP V).*

*†Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see FLINT SOP V).*

33. Coronary heart disease (CHD) risk factors: Do you have any of the following:

- a. Current cigarette smoking (see item 9 or 14): ( 1 )
- b. SBP ≥ 140 mmHg or DBP ≥ 90 mmHg or on antihypertensive medication (based on items 20, 21, and 22): ( 1 )
- c. HDL cholesterol less than 40 mg/dL (based on item 18): ( 1 )
- d. Family history of premature CHD (see item 23): ( 1 )
- e. Age in men ≥ 45 years or age in women ≥ 55 years (based on items 15 and 16): ( 1 )
- f. HDL cholesterol 60 mg/dL or more (based on item 18): ( 1 )

34. Total number of CHD risk factors (add number of “yes” in items 33a-e and subtract 1 if item 33f is “yes”; code as “0” if only 33f is “Yes”): \_\_\_\_\_

35. Are there 2 or more CHD risk factors (item 34):

Yes ( 1 )      No ( 2 )

38.

36. Is LDL cholesterol less than 130 mg/dL:

Yes ( 1 )      No ( 2 )

40.

37. Is 10-year Framingham heart attack risk estimate between 10 and 20%, inclusive or LDL cholesterol 160 mg/dL or more:

Yes ( \* 1 )      No ( † 2 )  
   
**40.**

*\*Refer for cholesterol management with LDL-lowering drug therapy (see FLINT SOP V).*

*†Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see FLINT SOP V).*

38. Is LDL cholesterol 190 mg/dL or more:

Yes ( \* 1 )      No ( 2 )  
   
**40.**

*\*Refer for cholesterol management with LDL-lowering drug therapy (see FLINT SOP V).*

39. Is LDL cholesterol between 160 and 189 mg/dL, inclusive:

Yes ( † 1 )      No ( 2 )

*†Refer for cholesterol management with drug therapy optional, initiate LDL-lowering therapeutic lifestyle changes (see FLINT SOP V).*

**E. Other cardiovascular events**

40. Has the patient ever been diagnosed with or treated for any of the following (*check all that apply*)

- a. Myocardial infarction: ( 1 )
- b. Angina: ( 1 )
- c. Stroke: ( 1 )
- d. Cerebrovascular disease: ( 1 )
- e. Coronary artery disease: ( 1 )
- f. Congestive heart failure: ( 1 )
- g. Peripheral vascular disease: ( 1 )
- h. Other cardiovascular disease (*specify*): ( 1 )

\_\_\_\_\_ specify

- i. None of the above: ( 1 )

**F. Administrative information**

41. Study Physician PIN: \_\_\_\_\_

42. Study Physician signature: \_\_\_\_\_

43. Clinical Coordinator PIN: \_\_\_\_\_

44. Clinical Coordinator signature: \_\_\_\_\_

45. Date form reviewed: \_\_\_\_\_  
 day      mon      year

# Men

## Estimate of 10-Year Risk for Men

(Framingham Point Scores)

Age	Points
20-34	-9
35-39	-4
40-44	0
45-49	3
50-54	6
55-59	8
60-64	10
65-69	11
70-74	12
75-79	13

Total Cholesterol	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
<160	0	0	0	0	0
160-199	4	3	2	1	0
200-239	7	5	3	1	0
240-279	9	6	4	2	1
≥280	11	8	5	3	1

	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
Nonsmoker	0	0	0	0	0
Smoker	8	5	3	1	1

HDL (mg/dL)	Points
≥60	-1
50-59	0
40-49	1
<40	2

Systolic BP (mmHg)	If Untreated	If Treated
<120	0	0
120-129	0	1
130-139	1	2
140-159	1	2
≥160	2	3

Point Total	10-Year Risk %
<0	< 1
0	1
1	1
2	1
3	1
4	1
5	2
6	2
7	3
8	4
9	5
10	6
11	8
12	10
13	12
14	16
15	20
16	25
≥17	≥ 30

10-Year risk \_\_\_\_\_%

# Women

## Estimate of 10-Year Risk for Women

(Framingham Point Scores)

Age	Points
20-34	-7
35-39	-3
40-44	0
45-49	3
50-54	6
55-59	8
60-64	10
65-69	12
70-74	14
75-79	16

Total Cholesterol	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
<160	0	0	0	0	0
160-199	4	3	2	1	1
200-239	8	6	4	2	1
240-279	11	8	5	3	2
≥280	13	10	7	4	2

	Points				
	Age 20-39	Age 40-49	Age 50-59	Age 60-69	Age 70-79
Nonsmoker	0	0	0	0	0
Smoker	9	7	4	2	1

HDL (mg/dL)	Points
≥60	-1
50-59	0
40-49	1
<40	2

Systolic BP (mmHg)	If Untreated	If Treated
<120	0	0
120-129	1	3
130-139	2	4
140-159	3	5
≥160	4	6

Point Total	10-Year Risk %
< 9	< 1
9	1
10	1
11	1
12	1
13	2
14	2
15	3
16	4
17	5
18	6
19	8
20	11
21	14
22	17
23	22
24	27
≥25	≥ 30

10-Year risk \_\_\_\_\_%

## FLINT

## DR - Death Report

**Purpose:** To record the report of a patient's death.

**When:** As soon as clinic is notified of a patient's death.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete this form whenever the clinical center is informed of a patient's death. If the death is considered associated or possibly associated with participation in the FLINT study, complete a Serious Adverse Event (SR) form and follow the directions on Form SR for reporting a serious adverse event in FLINT.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

\_\_\_\_\_ city/state/country

2. Patient ID: \_\_\_\_\_

\_\_\_\_\_ city/state/country

3. Patient code: \_\_\_\_\_

4. Date form is initiated (*date of notice*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                   n \_\_\_\_\_

6. Form & revision:           d r 1

7. Study:                                 FLINT 7

**10. Place of death:****11. Cause of death**

(*Study Physician: use whatever knowledge you have and your best medical judgment to best characterize the cause of death; check only one*):

Heart disease ( 1 )

Stroke ( 2 )

Liver disease ( 3 )

Malignancy ( 4 )

Other (*specify*): ( 5 )

\_\_\_\_\_ specify

\_\_\_\_\_ specify

Unknown ( 6 )

**B. Death information**

8. Date of death:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Source of death report (*check all that apply*):

a. Patient's family: ( 1 )

b. Friend: ( 1 )

c. Health care provider or NASH CRN staff: ( 1 )

d. Newspaper: ( 1 )

e. Funeral parlor/home: ( 1 )

f. Medical record: ( 1 )

g. Medical examiner: ( 1 )

h. Coroner: ( 1 )

i. Other (*specify*): ( 1 )

\_\_\_\_\_ other source

\_\_\_\_\_ other source

**C. Administrative information**

12. Study Physician PIN: \_\_\_\_\_

13. Study Physician signature: \_\_\_\_\_

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature: \_\_\_\_\_

16. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year



**13. Inflammation**

**a.** Amount of lobular inflammation:  
combines mononuclear, fat  
granulomas, and pmn foci:

- 0  ( 0 )
- < 2 / 20x mag  ( 1 )
- 2-4 / 20x mag  ( 2 )
- > 4 / 20x mag  ( 3 )

**b.** Amount of portal, chronic  
inflammation:

- None to minimal  ( 0 )
- Mild  ( 1 )
- More than mild  ( 2 )

**14. Hepatocellular ballooning:**

- None  ( 0 )
- Few  ( 1 )
- Many  ( 2 )

**15. Is steatohepatitis present:**

- No  ( 1 )
- Suspicious/borderline/indeterminate  ( 2 )
- Yes, definite  ( 3 )

**D. Exclusion of other liver disease**

**16.** Is there evidence of primary biliary  
cirrhosis:

- ( Yes )  ( \* 1 )
- ( No )  ( 2 )

*\* Caution: Primary biliary cirrhosis is  
exclusionary*

**17.** Is there evidence of Wilson's disease:

- ( Yes )  ( \* 1 )
- ( No )  ( 2 )

*\* Caution: Wilson's disease is exclusionary*

**18.** Features of chronic cholestatic liver  
disease (*check all that apply*)

- a.** Bile duct loss/infiltration/sclerosis:  ( \* 1 )
- b.** Florid duct lesions:  ( 1 )
- c.** Cholate stasis:  ( 1 )
- d.** Copper deposition:  ( 1 )
- e.** Other (*specify*):  ( 1 )

**f.** None:  ( 1 )  
*\* Caution: Bile duct obstruction and primary  
sclerosing cholangitis are exclusionary*

**19.** Features of other forms of chronic liver  
disease (*check all that apply*)

- a.** Vascular lesions of ALD/B-C/OVD:  ( 1 )
- b.** Inflammation suggestive of AIH,  
HCV:  ( \* 1 )
- c.** Pigment suggestive of HH:  ( \* 1 )
- d.** Globules suggestive of A1AT:  ( \* 1 )
- e.** Hepatocellular changes suggestive of  
HBV:  ( \* 1 )
- f.** Granulomas suggestive of sarcoid,  
PBC, infection:  ( \* 1 )
- g.** Other (*specify*):  ( 1 )
- h.** None:  ( 1 )

*\* Exclusionary*





**FLINT****HI - Follow-up Medical History**

**Purpose:** To record follow-up medical history information about the patient.

**When:** Visits f02, f04, f12, f24, f36, f48, f60, f72, f96.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Respondent:** Patient.

**Instructions:** Collect information by interview and chart review.

**A. Center, visit, and patient identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:   f   \_\_\_\_\_

6. Form & revision:   h     i     2  

7. Study:   FLINT     7  

**B. Interval identification**

8. Date of last Follow-up Medical History form (*if this is visit f02 then date of s*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Visit code of last Follow-up Medical History form (*if this is visit f02 then s*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**C. NAFLD evaluation**

10. Has the participant had a liver biopsy since the last visit:

Yes ( \* 1 )      No ( 2 )

*\*Complete the Liver Biopsy Materials Documentation (SD) form.*

**D. Alcohol consumption (AUDIT-C) since the last visit**

11. Since the last visit, how often have you had a drink containing alcohol:

Never ( 0 )

14.   1  

Monthly or less ( 1 )

Two to four times a month ( 2 )

Two to three times a week ( 3 )

Four or more times a week ( 4 )

12. Since the last visit, how many drinks containing alcohol have you had on a typical day when you are drinking:

1 or 2 ( 0 )

3 or 4 ( 1 )

5 or 6 ( 2 )

7 to 9 ( 3 )

10 or more ( 4 )

13. Since the last visit, how often have you had six or more drinks on one occasion:

Never ( 0 )

Less than monthly ( 1 )

Monthly ( 2 )

Weekly ( 3 )

Daily or almost daily ( 4 )

**E. Recent medical history**

**14.** Has the patient been diagnosed with any of the following since the last visit (*check all that apply; source of information can be interview and/or chart review*)

- |  |                              |   |                              |
|--|------------------------------|---|------------------------------|
| <b>a.</b> Diabetes type 1:                             | ( <input type="checkbox"/> ) | <b>aa.</b> Short bowel syndrome:  | ( <input type="checkbox"/> ) |
| <b>b.</b> Diabetes type 2:                             | ( <input type="checkbox"/> ) | <b>ab.</b> Hemophilia ( <i>bleeding disorder</i> ):                                     | ( <input type="checkbox"/> ) |
| <b>c.</b> Chronic hepatitis B:                         | ( <input type="checkbox"/> ) | <b>ac.</b> HIV positive:  | ( <input type="checkbox"/> ) |
| <b>d.</b> Hepatitis C:                                 | ( <input type="checkbox"/> ) | <b>ad.</b> Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: | ( <input type="checkbox"/> ) |
| <b>e.</b> Active autoimmune hepatitis:                 | ( <input type="checkbox"/> ) | <b>ae.</b> Endocrine disease ( <i>hormonal abnormality</i> ):                           | ( <input type="checkbox"/> ) |
| <b>f.</b> Autoimmune cholestatic liver disorder (PBC): | ( <input type="checkbox"/> ) | <b>af.</b> Hepatocellular carcinoma:  | ( <input type="checkbox"/> ) |
| <b>g.</b> Wilson's disease:                            | ( <input type="checkbox"/> ) | <b>ag.</b> Other malignancy ( <i>cancer</i> ):  | ( <input type="checkbox"/> ) |
| <b>h.</b> Alpha-1-antitrypsin (A1AT) deficiency:       | ( <input type="checkbox"/> ) | <b>ah.</b> Peripheral neuropathy:   | ( <input type="checkbox"/> ) |
| <b>i.</b> Glycogen storage disease:                    | ( <input type="checkbox"/> ) | <b>ai.</b> Seizure disorder or epilepsy:  | ( <input type="checkbox"/> ) |
| <b>j.</b> Iron overload:                               | ( <input type="checkbox"/> ) | <b>aj.</b> Drug allergies:  | ( <input type="checkbox"/> ) |
| <b>k.</b> Hemochromatosis:                             | ( <input type="checkbox"/> ) | <b>ak.</b> Hypothyroidism:  | ( <input type="checkbox"/> ) |
| <b>l.</b> Polycystic liver disease:                    | ( <input type="checkbox"/> ) | <b>al.</b> Hypertension:  | ( <input type="checkbox"/> ) |
| <b>m.</b> Biliary diversion:                           | ( <input type="checkbox"/> ) | <b>am.</b> Cerebrovascular disease:   | ( <input type="checkbox"/> ) |
| <b>n.</b> Primary sclerosing cholangitis:              | ( <input type="checkbox"/> ) | <b>an.</b> Chronic cholestasis:   | ( <input type="checkbox"/> ) |
| <b>o.</b> Drug induced liver disease:                  | ( <input type="checkbox"/> ) | <b>ao.</b> Hyperlipidemia ( <i>high cholesterol, high triglycerides</i> ):              | ( <input type="checkbox"/> ) |
| <b>p.</b> Bile duct obstruction:                       | ( <input type="checkbox"/> ) | <b>ap.</b> Pancreatitis:  | ( <input type="checkbox"/> ) |
| <b>q.</b> Gilbert's syndrome:                          | ( <input type="checkbox"/> ) | <b>aq.</b> Cholelithiasis:  | ( <input type="checkbox"/> ) |
| <b>r.</b> Esophageal or gastric varices on endoscopy:  | ( <input type="checkbox"/> ) | <b>ar.</b> Coronary artery disease:   | ( <input type="checkbox"/> ) |
| <b>s.</b> Bleeding from varices:                       | ( <input type="checkbox"/> ) | <b>as.</b> Congestive heart failure:  | ( <input type="checkbox"/> ) |
| <b>t.</b> Other gastrointestinal bleeding:             | ( <input type="checkbox"/> ) | <b>at.</b> Elevated uric acid such as gout:   | ( <input type="checkbox"/> ) |
| <b>u.</b> Ascites:                                     | ( <input type="checkbox"/> ) | <b>au.</b> Kidney disease:  | ( <input type="checkbox"/> ) |
| <b>v.</b> Edema:                                       | ( <input type="checkbox"/> ) | <b>av.</b> Polycystic ovary syndrome:   | ( <input type="checkbox"/> ) |
| <b>w.</b> Hepatic encephalopathy:                      | ( <input type="checkbox"/> ) | <b>aw.</b> Sleep apnea ( <i>not breathing during sleep</i> ):                           | ( <input type="checkbox"/> ) |
| <b>x.</b> Portal hypertension:                         | ( <input type="checkbox"/> ) | <b>ax.</b> Dermatologic disorders:  | ( <input type="checkbox"/> ) |
| <b>y.</b> Hepatorenal syndrome:                        | ( <input type="checkbox"/> ) | <b>ay.</b> Myopathy:  | ( <input type="checkbox"/> ) |
| <b>z.</b> Hepatopulmonary syndrome:                    | ( <input type="checkbox"/> ) | <b>az.</b> Myositis:  | ( <input type="checkbox"/> ) |
|  |                              | <b>ba.</b> Major depression:  | ( <input type="checkbox"/> ) |
|  |                              | <b>bb.</b> Schizophrenia:   | ( <input type="checkbox"/> ) |
|  |                              | <b>bc.</b> Bipolar disorder:  | ( <input type="checkbox"/> ) |
|  |                              | <b>bd.</b> Obsessive compulsive disorder:   | ( <input type="checkbox"/> ) |
|  |                              | <b>be.</b> Severe anxiety or personality disorder:                                      | ( <input type="checkbox"/> ) |
|  |                              | <b>bf.</b> Substance abuse:   | ( <input type="checkbox"/> ) |
|  |                              | <b>bg.</b> Other ( <i>specify</i> ):  | ( <input type="checkbox"/> ) |
|  |                              | _____ specify   |                              |
|  |                              | <b>bh.</b> None of the above:   | ( <input type="checkbox"/> ) |

15. Since the last visit, has the patient had surgery for any of the following (check all that apply)
- a. Stapling or banding of the stomach: (  1 )
  - b. Jejunioileal (or other intestinal) bypass: (  1 )
  - c. Biliopancreatic diversion: (  1 )
  - d. Other GI or bariatric surgery (specify): (  1 )
- 
- e. None: (  1 )

16. Is the patient currently undergoing evaluation for bariatric surgery:
- (  Yes 1 ) (  No 2 )

17. Since the last visit, has the patient received:
- a. Liver transplant: (  Yes 1 ) (  No 2 )
  - b. Any other organ, limb, or bone marrow transplant: (  Yes 1 ) (  No 2 )

18. Since the last visit, has the patient had ER visits or hospitalizations:
- (  \* Yes 1 ) (  No 2 )
- 19.**

\* Complete an Interim Event Report (IE) form  
If Yes, specify reason and list dates:

\_\_\_\_\_

\_\_\_\_\_

If none for items 18a or 18b, enter "00".

- a. Number of hospitalizations: \_\_\_\_\_  
# of hospitalizations
- b. Number of Emergency Room visits: \_\_\_\_\_  
# of visits

19. Since the last visit, has the patient had any serious health problem or adverse events not already reported:
- (  \* Yes 1 ) (  No 2 )
- 20.**

\* Complete an Interim Event Report (IE) form  
If Yes, specify and list dates:

\_\_\_\_\_

\_\_\_\_\_

**F. Drugs historically associated with NAFLD**

20. Has the patient used any of the following since last visit:
- (  Yes 1 ) (  No 2 )
- 21.**

(If yes, check all that apply):

- a. Amiodarone (Cordarone, Pacerone): (  1 )
  - b. Demeclocycline (Declomycin): (  1 )
  - c. Divalproex (Depakote): (  1 )
  - d. Doxycycline (Monodox): (  1 )
  - e. Methotrexate (Rheumatrex): (  1 )
  - f. Minocycline (Dynacin, Minocin): (  1 )
  - g. Oxytetracycline (Terramycin): (  1 )
  - h. Tetracycline (Achromycin): (  1 )
  - i. Valproate sodium (Depacon): (  1 )
  - j. Valproic acid (Depakene): (  1 )
  - k. Other known hepatotoxin #1 (specify): (  1 )
- 
- l. Other known hepatotoxin #2 (specify): (  1 )
- 

- m. Other known hepatotoxin #3 (specify): (  1 )
- 

21. Has the patient taken any systemic glucocorticoids since last visit:
- (  Yes 1 ) (  No 2 )
- 22.**

(If yes, check all that apply):

- a. Betamethasone sodium (Celestone): (  1 )
  - b. Cortisol: (  1 )
  - c. Cortisone: (  1 )
  - d. Dexamethasone (Decadron): (  1 )
  - e. Hydrocortisone (Hydrocortone): (  1 )
  - f. Methylprednisolone (Solu-Medrol): (  1 )
  - g. Prednisolone (Prelone): (  1 )
  - h. Prednisone: (  1 )
  - i. Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  1 )
  - j. Other, (specify): (  1 )
- 
- k. Other, (specify): (  1 )
-

22. Has the patient taken any estrogen, progestin, anabolic steroids, hormone replacement therapy, or selective estrogen receptor modulators since last visit:

( Yes )      ( No )  
 ( 1 )        ( 2 )  
 23.

*(If yes, check all that apply):*

- a. Boldenone undecylenate (Equipose): (  )
- b. Conjugated estrogen (Premarin/Prempro): (  )
- c. Diethylstilbestrol and methyltestosterone (Tylosterone): (  )
- d. Esterified estrogen (Estratab, Menest): (  )
- e. Estradiol (Estrace): (  )
- f. Ethinyl estradiol (Estinyl): (  )
- g. Fluoxymesterone (Android-F, Halotestin): (  )
- h. Levonorgestrel (Norplant): (  )
- i. Medroxyprogesterone (Cycrin, Provera): (  )
- j. Megestrol (Megace): (  )
- k. Methandrostenolone (Dianabol): (  )
- l. Methyltestosterone (Android): (  )
- m. Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
- n. Norethindrone (Micronor): (  )
- o. Norgestrel (Ovrette): (  )
- p. Oral contraceptives (Alesse, Demulen, Desogen, Estrostep, Genora, Intercon, Levlen, Levlite, Levora, Loestrin, Lo-Ovral, Necon, Nelova, Nordette, Norethin, Norinyl, Ortho Cyclen, Ortho-Novum, Ortho Tri-Cyclen, Ovral, Tri-Levlen, Triphasil, Trivora, Zovia): (  )
- q. Oxandrolone (Oxandrin): (  )
- r. Oxymetholone (Anadrol): (  )
- s. Progesterone (Prometrium): (  )
- t. Raloxifene (Evista): (  )
- u. Stanzolol (Winstrol): (  )
- v. Tamoxifen (Nolvadex): (  )
- w. Testosterone (Depo-Testosterone): (  )
- x. Other, (specify): (  )
- y. Other, (specify): (  )

**G. Use of antiNASH drugs and supplements**

23. Has the patient taken any of these antiNASH drugs since last visit:

( Yes )      ( No )  
 ( 1 )        ( 2 )  
 24.

*(If yes, check all that apply):*

- a. Betaine (Cystadone): (  )
- b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- c. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol): (  )
- d. S-adenylmethionine (SAM-e): (  )
- e. Milk thistle: (  )
- f. Probiotics (any form): (  )
- g. Other (specify): (  )

\_\_\_\_\_ specify

24. Has the patient taken a thiazolidinedione since last visit:

( Yes )      ( No )  
 ( 1 )        ( 2 )

**H. Use of antiobesity drugs**

25. Has the patient taken any antiobesity medications since last visit:

( Yes )      ( No )  
 ( 1 )        ( 2 )  
 26.

*(If yes, check all that apply):*

- a. Dexfenfluramine hydrochloride (Redux): (  )
- b. Fenfluramine hydrochloride (Pondimin): (  )
- c. Methamphetamine hydrochloride (Desoxyn, Gradumet): (  )
- d. Orlistat (Xenical): (  )
- e. Phendimetrazine tartrate (Adipost, Bontril): (  )
- f. Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): (  )
- g. Sibutramine hydrochloride monohydrate (Meridia): (  )
- h. Other, (specify): (  )
- i. Other, (specify): (  )

**I. Use of antidependency drugs**

26. Has the patient taken any alcohol abuse, inhaled or injection drugs (dependence or withdrawal) medications since last visit:

( Yes )      ( No )  
 (    1 )      (    2 )  
 27.

*(If yes, check all that apply):*

- a. Chlordiazepoxide (Librium):      (    1 )  
 b. Clorazepate dipotassium (Tranxene):      (    1 )  
 c. Diazepam (Valium):      (    1 )  
 d. Disulfiram (Antabuse):      (    1 )  
 e. Hydroxyzine pamoate (Vistaril):      (    1 )  
 f. Naltrexone hydrochloride (Revia):      (    1 )  
 g. Other, (specify):      (    1 )  
 \_\_\_\_\_

**J. Use of other medications and supplements**

27. Has the patient used any antidiabetic medications since last visit:

( Yes )      ( No )  
 (    1 )      (    2 )  
 28.

*(If yes, check all that apply):*

- a. Metformin (Glucophage, Glucophage XR):      (    1 )  
 b. Gemfibrozil (Gen-Fibro, Lopid):      **VOID**  
 c. Acarbose (Precose):      (    1 )  
 d. Acetohexamide (Dymelor):      (    1 )  
 e. Chlorpropamide (Diabinese):      (    1 )  
 f. Glimepiride (Amaryl):      (    1 )  
 g. Glipizide (Glucotrol, Glucotrol XL):      (    1 )  
 h. Glyburide (Micronase, DiaBeta, Glynase):      (    1 )  
 i. Insulin:      (    1 )  
 j. Miglitol (Glycet):      (    1 )  
 k. Nateglinide (Starlix):      (    1 )  
 l. Pioglitazone (Actos):      (    1 )  
 m. Repaglinide (Prandin):      (    1 )  
 n. Rosiglitazone (Avandia):      (    1 )  
 o. Tolazamide (Tolinase):      (    1 )  
 p. Tolbutamide (Orinase):      (    1 )  
 q. Other, (specify):      (    1 )  
 \_\_\_\_\_

28. Has the patient taken any cardiovascular/antihypertensive medications since last visit:

( Yes )      ( No )  
 (    1 )      (    2 )  
 29.

*(If yes, check all that apply):*

- a. Amlodipine besylate (Norvasc):      (    1 )  
 b. Aspirin - 81 mg:      (    1 )  
 c. Atenolol (Tenormin):      (    1 )  
 d. Benazepril (Lotensin):      (    1 )  
 e. Captopril (Capoten):      (    1 )  
 f. Clonidine (Catapres):      (    1 )  
 g. Digoxin (Lanoxin):      (    1 )  
 h. Diltiazem (Cardizem):      (    1 )  
 i. Doxazosin (Cardura):      (    1 )  
 j. Enalapril (Vasotec):      (    1 )  
 k. Felodipine (Plendil):      (    1 )  
 l. Furosemide (Lasix):      (    1 )  
 m. Hydrochlorothiazide (Esidrix, HydroDIURIL):      (    1 )  
 n. Hydrochlorothiazide + triamterene (Dyazide):      (    1 )  
 o. Lisinopril (Prinivil, Zestril):      (    1 )  
 p. Losartan potassium (Cozaar):      (    1 )  
 q. Losartan potassium with hydrochlorothiazide (Hyzaar):      (    1 )  
 r. Metoprolol (Lopressor):      (    1 )  
 s. Nifedipine (Adalat, Procardia):      (    1 )  
 t. Perhexiline maleate:      (    1 )  
 u. Propranolol (Inderal):      (    1 )  
 v. Quinapril (Accupril):      (    1 )  
 w. Terazosin (Hytrin):      (    1 )  
 x. Timolol maleate (Blocadren):      (    1 )  
 y. Valsartan (Diovan):      (    1 )  
 z. Verapamil (Calan):      (    1 )  
 aa. Other, (specify):      (    1 )  
 \_\_\_\_\_  
 ab. Other, (specify):      (    1 )  
 \_\_\_\_\_

**29.** Has the patient taken any antihyperlipidemic medications since last visit:

Yes                      No  
 ( 1 )                      ( 2 )  
**30.**

*(If yes, check all that apply):*

- a. Atorvastatin (Lipitor): ( 1 )
  - b. Colestipol hydrochloride (Colestid): ( 1 )
  - c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate): ( 1 )
  - d. Gemfibrozil (Gen-Fibro, Lopid): ( 1 )
  - e. Fenofibrate (Tricor): ( 1 )
  - f. Fluvastatin sodium (Lescol): ( 1 )
  - g. Lovastatin (Mevacor): ( 1 )
  - h. Nicotinic acid (Niaspan): ( 1 )
  - i. Pravastatin sodium (Pravachol): ( 1 )
  - j. Rosuvastatin (Crestor): ( 1 )
  - k. Simvastatin (Zocor): ( 1 )
  - l. Other, *(specify)*: ( 1 )
- 

**30.** Has the patient taken any vitamins since last visit:

Yes                      No  
 ( 1 )                      ( 2 )  
**31.**

*(If yes, check all that apply):*

- a. Vitamin B (any type): ( 1 )
  - b. Vitamin C: ( 1 )
  - c. Vitamin D: ( 1 )
  - d. Vitamin E: ( 1 )
  - e. Multivitamin: ( 1 )
  - f. Other, *(specify)*: ( 1 )
- 

**31.** Has the patient taken any supplements since last visit:

Yes                      No  
 ( 1 )                      ( 2 )  
**32.**

*(If yes, check all that apply):*

- a. Alpha-lipoic acid: ( 1 )
- b. Alpha-tocopherol: ( 1 )
- c. Beta-carotene: ( 1 )
- d. Betaine (Cystadane): ( 1 )
- e. Calcium (any form): ( 1 )
- f. Carnitine (any form): ( 1 )
- g. Chondroitin (any form): ( 1 )
- h. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): ( 1 )
- i. Cod liver oil: ( 1 )
- j. Coenzyme Q: ( 1 )
- k. Dichloroacetate: ( 1 )
- l. Echinacea: ( 1 )
- m. Fish oil (any form): ( 1 )
- n. Flax seed oil: ( 1 )
- o. Garlic: ( 1 )
- p. Ginkgo biloba: ( 1 )
- q. Glucosamine (any form): ( 1 )
- r. Lecithin: ( 1 )
- s. Magnesium: ( 1 )
- t. N-acetyl-cysteine: ( 1 )
- u. Potassium (any form): ( 1 )
- v. Saw palmetto: ( 1 )
- w. Selenium: ( 1 )
- x. St. John's Wort: ( 1 )
- y. Taurine: ( 1 )
- z. Zinc picolinate: ( 1 )
- aa. Other, *(specify)*: ( 1 )

**ab.** Other, *(specify)*: ( 1 )

---

32. Has patient taken any of the following medications or other supplements/medications since last visit:

Yes
No  
( 1 )
( 2 )

33.

*(If yes, record all other supplements/medications):*

- a. Isotretinoin (Accutane): ( 1 )
- b. Levothyroxine (Levoxyl, Synthroid): ( 1 )
- c. Liothyronine (Cytomel): ( 1 )
- d. Penicillamine (Cuprimine, Depen): ( 1 )
- e. Trientine hydrochloride (Syprine): ( 1 )
- f. Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- g. Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- h. Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- i. Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- j. Other, *(specify)*: ( 1 )  
\_\_\_\_\_
- k. Other, *(specify)*: ( 1 )  
\_\_\_\_\_

**K. Administrative information**

33. Study Physician PIN: \_\_\_\_\_

34. Study Physician signature: \_\_\_\_\_

35. Clinical Coordinator PIN: \_\_\_\_\_

36. Clinical Coordinator signature: \_\_\_\_\_

37. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day
mon
year



## FLINT

## IE - Interim Event Report

**Purpose:** To document an adverse event that threatens the integrity of the FLINT trial or well-being of a study participant that includes, but not limited to:

- (1) events that impact the patient's treatment or participation in FLINT
- (2) adverse events that are recorded on the Follow-Up Medical History (HI) form
- (3) adverse events that may or may not be related to study drug
- (4) other events that clinical center staff feel should be reported
- (5) when a follow-up report is needed for a previously completed IE form

As defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Adverse event* means any untoward medical occurrence associated with the use of a drug in humans, whether or not considered drug related.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, "reasonable possibility" means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "serious" if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgement, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Life-threatening adverse event or life-threatening suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "life-threatening" if, in the view of either the investigator or sponsor, its occurrence places the patient or subject at immediate risk of death. It does not include an adverse event or suspected adverse reaction that, had it occurred in a more severe form, might have caused death.

**When:** As needed. Use visit code if reporting an event discovered during a regular follow-up visit. Use visit code n if event is discovered between study visits. If more than one event is reported on the same calendar day (ie, same date in item 4 for all events), use visit code for first event, n for second event, n2 for third event, etc. Adverse events that are serious, unexpected and have reasonable possibility of being caused by FLINT study drug should also be recorded on the Serious Adverse Event/IND Safety Report (SR) form.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form for any event that meets the criteria above. The short name (item 16) and the severity grade (item 17) are to be obtained from the NCI's Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). Click on Studies and then FLINT. Fax the DCC (Fax 410-955-0932; Attention: Ivana Vaughn) a copy of this form if severity grade is 3 or higher within 1 week for further review by Dr. Jeanne Clark, the NASH CRN Safety Officer. For more information, see SOP I sections 6.15 and 6.16.

**Follow-up report:** A follow-up report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patient's condition or in the physician's judgment about the event since the previous report was filed.

#### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report: \_\_\_\_\_  
 day                      mon                      year

5. Visit code: \_\_\_\_\_  
*if report not associated with a visit, fill in "n"*

6. Form & revision:   i     e     3  

7. Study:   FLINT     7



- 17. Severity grade:**
- Not an adverse event ( 0 )
  - Grade 1 - Mild ( 1 )
  - Grade 2 - Moderate ( 2 )
  - Grade 3 - Severe ( 3 )
  - Grade 4 - Life threatening or disabling ( 4 )
  - Grade 5 - Death ( \* 5 )

*\*Complete and key Death Report (DR) form.*

- 18. Randomization in FLINT**
- a. Has patient been randomized in FLINT:**
- ( Yes ) ( No )  
( 1 ) ( 2 )
- 26.** —

**b. Date randomized in FLINT:**

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

- 19. Is the patient currently receiving the FLINT study drug:**
- ( Yes ) ( No )  
( 1 ) ( 2 )

- 20. Patient's history of treatment with FLINT study drug**
- a. How long has patient been on study drug:**
- \_\_\_\_\_
- b. Have there been any treatment interruptions or restarts:**
- ( Yes ) ( No )  
( 1 ) ( 2 )
- Include stop/restart dates and reasons:*
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- 21. Is there evidence to suggest a causal relationship between the FLINT study drug and the adverse event:**
- Definitely yes ( 1 )
  - Probably yes ( 2 )
  - Possibly yes ( 3 )
  - Probably no ( 4 )
  - Definitely no ( 5 )

- 22. Is this a serious adverse event:**
- ( Yes ) ( No )  
( 1 ) ( 2 )

**23.** —

*If Yes, then select all the reasons that apply:*

- a. Severity Grade 4 or 5:** ( 1 )
- b. Required inpatient hospitalization or prolonged existing hospitalization:** ( 1 )
- c. Persistent or significant incapacity or substantial disruption of ability to conduct normal life functions:** ( 1 )
- d. Jeopardized patient and required medical or surgical intervention to prevent a serious event:** ( 1 )
- e. Congenital abnormality or birth defect:** ( 1 )

- 23. Is this an unexpected adverse event:**
- ( Yes ) ( No )  
( 1 ) ( 2 )
- 25.** —

- 24. Reason the adverse event was unexpected:**
- Not listed in the obeticholic acid investigator's brochure ( 1 )
  - Listed in the obeticholic acid investigator's brochure, but not at the specificity or severity that has been observed ( 2 )
  - Listed in the obeticholic acid investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of obeticholic acid ( 3 )

- 25. Did you select "Yes" for items 21 (definitely, probably, or possibly), 22, and 23:**
- ( Yes ) ( No )  
( \* 1 ) ( 2 )

*\*If Yes, please also complete a Serious Adverse Event/IND Safety Report (SR) form and follow instructions.*

- 26. Current status of adverse event (check only one):**
- Resolved ( 1 )
  - Active ( 2 )
  - Unknown ( 3 )
- 28.** —
- 28.** —

27. Date adverse event resolved:

\_\_\_\_-\_\_\_\_-\_\_\_\_  
day mon year

28. What action was taken:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

29. Other comments on event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

30. Clinical Coordinator PIN: \_\_\_\_\_

31. Clinical Coordinator signature:  
\_\_\_\_\_

32. Study Physician PIN: \_\_\_\_\_

33. Study Physician signature:  
\_\_\_\_\_

34. Date form reviewed:

\_\_\_\_-\_\_\_\_-\_\_\_\_  
day mon year

*Key this form and fax the DCC (Attention: Ivana Vaughn) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious adverse events so that we assure appropriate and timely study wide review. The serious adverse event reports will be reviewed by Dr. Jeanne Clark, the Safety Officer.*

## FLINT

LD – Lifetime Drinking History  
(Skinner)

**Purpose:** To obtain quantitative indices of the patient's alcohol consumption patterns from the onset of regular drinking.

**When:** Visits. If more than one LD form is needed, use visit code "n" on the second LD form.

**Administered by:** Clinical Coordinator.

**Respondent:** FLINT Patients, without help from spouse or family.

**Instructions:** In addition to actual consumption levels (quantity), attention is focused upon the frequency of use, variability in consumption, types of beverages, life events that mark a change in drinking pattern, solitary versus social drinking, and time of day when alcohol is consumed. Flash Card #9, Drink Equivalents, may be used with this interview.

The interviewer begins by recording the patient's alcohol consumption behavior during the first year that he/she drank on a regular basis (at least one drink per month). Then, the patient is asked to think of when his/her drinking behavior changed in any appreciable way. In a chronological fashion, the interviewer traces the patient's alcohol consumption behavior from the age of first regular drinking to the present. Flash Card #10, Patterns of Alcohol Intake, provides sample language for the interviewer. Each LD form allows for describing six drinking phases. Use a second LD form (visit code "n") if needed to describe additional drinking phases. If this is the second LD form, skip sections B and C and start with item 20.

The interview takes approximately 20 minutes to complete. It is best given after a reasonable degree of rapport has been established, whereby the patient will feel more at ease and talk openly. Other considerable probing and cross-referencing of facts is necessary to help in accurate recall. All information should be recorded under the appropriate heading on the LD form.

## A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_  
 day                      mon                      year
5. Visit code:                        S   \_\_\_\_\_
6. Form & revision:                1     d     1
7. Study:                              FLINT   7

## B. Lifetime alcohol consumption

8. Over the course of your lifetime have you ever had at least one drink of alcohol, beer, liquor, wine, or wine coolers, per month during a 12-month time period, or at least three drinks per day for at least three consecutive days (over a regular period of time):

Yes                      No  
 ( 1 )                      ( 2 )  
 81. ←

**C. First phase**

**Read as written:** "Now, I am going to ask you about your drinking pattern during the first year that you began to have at least one drink per month until your drinking behavior was different in a significant way from this time."

9. How old were you when you began regular drinking:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

10. How old were you at the end of first stage:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

11. During the first stage, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

12. How many days per month would you generally drink at this level:

\_\_\_\_\_ # days

13. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

14. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

15. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1)
- Occasional (*less than 15 days*) ( 2)
- Weekend mainly ( 3)
- Binge (*at least 3 days heavy drinking*) ( 4)
- Frequent (*15 days or more per month*) ( 5)

16. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1) ( 2)

**18.** ←

17. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . . . .	( 1)	( 2)	( 3)
b. Work . . . . .	( 1)	( 2)	( 3)
c. School . . . . .	( 1)	( 2)	( 3)
d. Medical . . . . .	( 1)	( 2)	( 3)
e. Residence . . . . .	( 1)	( 2)	( 3)
f. Legal/jail . . . . .	( 1)	( 2)	( 3)
g. Financial . . . . .	( 1)	( 2)	( 3)
h. Peer group . . . . .	( 1)	( 2)	( 3)
i. Drug abuse . . . . .	( 1)	( 2)	( 3)
j. Treatment . . . . .	( 1)	( 2)	( 3)
k. Death . . . . .	( 1)	( 2)	( 3)
l. Emotional . . . . .	( 1)	( 2)	( 3)

18. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

19. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning	_____	_____	_____
		%	
Afternoon	_____	_____	_____
		%	
Evening	_____	_____	_____
		%	

**D. Subsequent phase**

20. **Read as written:** "We have just discussed your drinking habits at the point when you first began to drink regularly. Now I want you to think to when your drinking behavior was different in a significant way from this time. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes	No
( 1 )	( 2 )

81. ←

21. How old were you at the beginning of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

22. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

23. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

24. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

25. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

26. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer	_____	_____	_____
		%	
Liquor	_____	_____	_____
		%	
Wine	_____	_____	_____
		%	

27. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

Abstinent	( 1 )
Occasional ( <i>less than 15 days</i> )	( 2 )
Weekend mainly	( 3 )
Binge ( <i>at least 3 days heavy drinking</i> )	( 4 )
Frequent ( <i>15 days or more per month</i> )	( 5 )

28. Did any important event or events occur during this period that altered your usual drinking habits:

Yes	No
( 1 )	( 2 )

30. ←

29. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )

30. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

31. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**E. Next subsequent phase**

32. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at a subsequent phase. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

33. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

34. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

35. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

36. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

37. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(*Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.*)

38. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

39. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )



40. Did any important event or events occur during this period that altered your usual drinking habits:

Yes ( 1 ) No ( 2 )

42. ←

41. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )

42. What percentage of time would you drink alone, and what percentage of the time with at least one other person (record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

43. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**F. Next subsequent phase**

44. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?":

Yes ( 1 ) No ( 2 )

81. ←

45. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

46. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

47. During this phase, how many drinks would you have on average per occasion (drinking day):

\_\_\_\_\_ # drinks

48. How many days per month would you generally drink at this level (write "m" if not drinking):

\_\_\_\_\_ # days

49. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)

50. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

51. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

52. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1 ) ( 2 )

54. ←

53. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )

54. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ % \_\_\_\_\_

With others \_\_\_\_\_ % \_\_\_\_\_

55. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ % \_\_\_\_\_

Afternoon \_\_\_\_\_ % \_\_\_\_\_

Evening \_\_\_\_\_ % \_\_\_\_\_

**G. Next subsequent phase**

56. **Read as written:** "We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits":

Yes No  
( 1 ) ( 2 )

81. ←

57. How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

58. How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

59. During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

60. How many days per month would you generally drink at this level (*write "m" if not drinking*):

\_\_\_\_\_ # days

61. What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

*(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)*

62. What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Beer \_\_\_\_\_ %

Liquor \_\_\_\_\_ %

Wine \_\_\_\_\_ %

63. How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

64. Did any important event or events occur during this period that altered your usual drinking habits:

Yes No  
( 1 ) ( 2 )

66. ←

65. What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient's drinking pattern, check "1" for positive effect or "2" for negative effect or "3" for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )

66. What percentage of time would you drink alone, and what percentage of the time with at least one other person (*record the relative percentages of "Alone" and "With others"; this section should add up to 100%; if not drinking, percentages should be "000"*):

Alone \_\_\_\_\_ %

With others \_\_\_\_\_ %

67. During what time of the day would you do most of your drinking? Could you give me the percentage of time during the evening, afternoon and morning (*record the relative percentages of morning, afternoon and evening; this section should add up to 100%; if not drinking, percentages should all be "000"*):

Morning \_\_\_\_\_ %

Afternoon \_\_\_\_\_ %

Evening \_\_\_\_\_ %

**H. Next subsequent phase**

**68. Read as written:** “We have just discussed your drinking habits when you first began to drink regularly and at subsequent phases. Now I want you to think to when your drinking behavior was different in a significant way from the previous phase. This could be the next 6 months or perhaps 2 or 5 years later. Can you think of any events in your life that changed and may have altered your drinking habits?”:

Yes      No  
 ( 1 )    ( 2 )

**81.** ←

**69.** How old were you at the beginning of the phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**70.** How old were you at the end of this phase:

a. Years: \_\_\_\_\_ yrs

b. Months: \_\_\_\_\_ mos

**71.** During this phase, how many drinks would you have on average per occasion (*drinking day*):

\_\_\_\_\_ # drinks

**72.** How many days per month would you generally drink at this level (*write “m” if not drinking*):

\_\_\_\_\_ # days

**73.** What is the most or maximum number of drinks you would have in any one day:

\_\_\_\_\_ # drinks

*(Note: This is the maximum number that the patient actually would drink, not an estimate of his/her potential capacity.)*

**74.** What type of beverage would you usually consume in an average month (*record the relative percentages of beer, liquor or wine; this section should add up to 100%; if not drinking, percentages should all be “000”*):

Beer \_\_\_\_\_ % \_\_\_\_\_

Liquor \_\_\_\_\_ % \_\_\_\_\_

Wine \_\_\_\_\_ % \_\_\_\_\_

**75.** How would you rate your usual style of drinking during an average month (*check the appropriate category*):

- Abstinent ( 1 )
- Occasional (*less than 15 days*) ( 2 )
- Weekend mainly ( 3 )
- Binge (*at least 3 days heavy drinking*) ( 4 )
- Frequent (*15 days or more per month*) ( 5 )

**76.** Did any important event or events occur during this period that altered your usual drinking habits:

Yes      No  
 ( 1 )    ( 2 )

**78.** ←

**77.** What was your perception of this event? Would you say that it had a positive (desirable), negative (undesirable), or neutral (no) effect on your life (*for each event that influenced the patient’s drinking pattern, check “1” for positive effect or “2” for negative effect or “3” for neutral or no effect*):

	Positive	Negative	Neutral
a. Marital/family . . .	( 1 )	( 2 )	( 3 )
b. Work . . . . .	( 1 )	( 2 )	( 3 )
c. School . . . . .	( 1 )	( 2 )	( 3 )
d. Medical . . . . .	( 1 )	( 2 )	( 3 )
e. Residence . . . . .	( 1 )	( 2 )	( 3 )
f. Legal/jail . . . . .	( 1 )	( 2 )	( 3 )
g. Financial . . . . .	( 1 )	( 2 )	( 3 )
h. Peer group . . . . .	( 1 )	( 2 )	( 3 )
i. Drug abuse . . . . .	( 1 )	( 2 )	( 3 )
j. Treatment . . . . .	( 1 )	( 2 )	( 3 )
k. Death . . . . .	( 1 )	( 2 )	( 3 )
l. Emotional . . . . .	( 1 )	( 2 )	( 3 )





22. Phosphate: \_\_\_\_\_ mg/dL

23. Blood urea nitrogen (BUN): \_\_\_\_\_ mg/dL

24. Creatinine (if serum creatinine  $\geq 2.0$  mg/dL, patient is ineligible): \_\_\_\_\_ mg/dL

25. Uric acid: \_\_\_\_\_ mg/dL

26. Albumin (if albumin  $< 3.2$  g/dL, patient is ineligible): \_\_\_\_\_ g/dL

27. Total protein: \_\_\_\_\_ g/dL

**D. Prothrombin time and INR**

Required at visits *s* and *f72*.

28. Are the prothrombin time and INR required at this visit:  
 (Yes) (1) (No) (2)  
 [32.]

29. Date of blood draw for prothrombin time and INR:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be in the required time window; within 90 days of liver biopsy or in the time window for the followup visit (check the patient's FLINT visit time window guide).*

30. Prothrombin time (PT): \_\_\_\_\_ sec

31. International normalized ratio (INR) (if INR  $> 1.3$ , patient is ineligible): \_\_\_\_\_

**E. Hemoglobin A1c**

Required at visits *s*, *f24*, *f48*, *f72*, and *f96*.

32. Is HbA1c required at this visit:  
 (Yes) (1) (No) (2)  
 [35.]

33. Date of blood draw for HbA1c:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window; within 60 days of randomization or in the time window for the follow-up visit (check the patient's FLINT visit time window guide).*

34. HbA1c (if HbA1c is  $\geq 9.5\%$  within 60 days of randomization, patient is ineligible): \_\_\_\_\_ %

**F. Liver panel**

Required at all visits.

35. Date of blood draw for liver panel:  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Date must be within the required time window; within 90 days of liver biopsy or in the time window for the follow-up visit (check the patient's FLINT visit time window guide).*

36. Bilirubin (total): \_\_\_\_\_ mg/dL

37. Bilirubin (conjugated or direct) (if direct bilirubin  $> 1.3$  mg/dL, patient is ineligible): \_\_\_\_\_

38. Aspartate aminotransferase (AST): \_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

39. Alanine aminotransferase (ALT)  
(if ALT > 300 U/L at screening,  
patient is ineligible)

\_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

40. Alkaline phosphatase

\_\_\_\_\_ U/L

a. Upper limit of normal: \_\_\_\_\_ U/L

41. Gamma glutamyl transferase (GGT):  
\_\_\_\_\_ U/L

**G. Fasting lipid profile**

Required at all visits

Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.

42. Was participant fasting for at least 8 hours prior to blood draw:  
(Yes  1) (No  \*2)

\*12 hour fasting is preferred, but will accept non-fasting lipid values.

43. Date of blood draw for fasting lipid profile:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be within the required time window; within 90 days of liver biopsy or in the time window for the followup visit (check the patient's FLINT visit time window guide).

a. Triglycerides: \_\_\_\_\_ mg/dL

b. Total cholesterol: \_\_\_\_\_ mg/dL

c. HDL cholesterol level: \_\_\_\_\_ mg/dL

d. LDL cholesterol level\*: \_\_\_\_\_ mg/dL

\*Enter "GT" if LDL cannot be calculated due to high triglycerides.

**H. Fasting glucose and insulin/oral glucose tolerance test**

Fasting glucose and insulin are required at all visits; the 2 hour OGTT is required at visits s and f72 for nondiabetics.

The 2 hour oral glucose tolerance test will be performed in the morning after a 12-hour overnight fasting. Blood samples will be obtained for measurements of serum glucose and insulin at baseline and 2 hours (120 minutes) after oral administration of a flavored glucose solution in a dose of 2 g/kg (75 g maximum).

44. Was participant fasting for at least 8 hours:  
(Yes  1) (No  \*2)  
49.

\*Patient must be fasting; 12 hour fasting is preferred. Fasting glucose and insulin must be obtained at visit s.

45. Date of blood draw for fasting glucose and insulin/OGTT:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

Date must be within 90 days of liver biopsy or in the time window for the followup visit (check the patient's FLINT visit time window guide).

46. Result of baseline fasting glucose/insulin levels  
a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

47. Is glucose tolerance test (OGTT) required at this visit (the 2 hour OGTT is required at visits s and f72 for nondiabetics):  
Yes (  1)

No (  2)

No, patient is diabetic (  3)

49.

49.

48. OGTT results at 2 hours  
a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL



**I. Pregnancy test**

*Required at all study visits, if applicable.*

49. Is pregnancy test applicable:

( Yes ) ( No )  
( 1 ) ( 2 )  
52.

50. Date of urine collection (or blood draw):

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Date must be the same day as date of visit.*

51. Pregnancy test result (if pregnancy test is positive at screening visit, patient is ineligible):

Positive ( 1 )  
Negative ( 2 )

**J. Eligibility check**

52. Is this the screening visit:

( Yes ) ( No )  
( 1 ) ( 2 )  
54.

53. Was the patient found to be ineligible based on platelet count (item 14), creatinine (item 24), albumin (item 26), INR (item 31), HbA1c (item 34), direct bilirubin (item 37), ALT (item 39) or pregnancy test (item 51) or based on missing tests:

( Yes ) ( No )  
( 1 ) ( 2 )  
54.  ~~Elig~~

**K. Administrative information**

54. Study Physician PIN: \_\_\_\_\_

55. Study Physician signature: \_\_\_\_\_

56. Clinical Coordinator PIN: \_\_\_\_\_

57. Clinical Coordinator signature: \_\_\_\_\_

58. Date form reviewed: \_\_\_\_\_  
day mon year



- e. Hepatitis C antibody (anti-HCV)  
*(indicate result as negative if EIA is positive but RIBA is negative or if RIBA is indeterminate but HCV RNA is negative):*  
 Positive  ( 1 )  
 Negative  ( 2 )

**C. Iron**

9. Date of blood draw for iron overload screening:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Repeat if date is greater than 1 year prior to screening.*

a. Iron: \_\_\_\_\_  $\mu\text{g/dL}$

b. Total iron binding capacity: \_\_\_\_\_  $\mu\text{g/dL}$

c. Ferritin: \_\_\_\_\_  $\text{ng/mL}$

10. Is hepatic iron index available:  
 Yes ( 1 )  No ( 2 )

12.

11. Hepatic iron index: \_\_\_\_\_  $\mu\text{Mol/g/year}$

**D. HFE gene analysis**

12. Does the patient have an abnormality in an iron overload screening test, a family history of iron overload or hemochromatosis, or histological iron of greater than 3+:  
 Yes ( 1 )  No ( 2 )

15.

13. Date of blood draw for HFE gene analysis:  
 \_\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

14. Type of abnormality (*WT = wild type; check only one*):
- None  ( 0 )
  - C282Y/H63D heterozygote mutation  ( 1 )
  - C282Y/C282Y homozygote mutation  ( 2 )
  - C282Y/WT heterozygote mutation  ( 3 )
  - H63D/WT heterozygote mutation  ( 4 )
  - H63D/H63D homozygote mutation  ( 5 )

**E. Ceruloplasmin**

15. Is patient 40 years old or younger:  
 Yes ( 1 )  No ( 2 )

18.

16. Date of blood draw for ceruloplasmin:  
*(required only if patient is 40 years old or younger):*  
 \_\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year  
*Repeat if date is greater than 5 years prior to screening.*

17. Ceruloplasmin \_\_\_\_\_  $\text{mg/dL}$

a. Upper limit of normal: \_\_\_\_\_  $\text{mg/dL}$

b. Lower limit of normal: \_\_\_\_\_  $\text{mg/dL}$

c. Is ceruloplasmin < LLN:  
 Yes ( \* 1 )  No ( 2 )



*\*Check liver biopsy histology findings for Wilson's disease.*

**F. Alpha-1 antitrypsin**

18. Date of blood draw for alpha-1 antitrypsin (A1AT):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Repeat if date is greater than 5 years prior to screening.*

19. Alpha-1 antitrypsin (A1AT) \_\_\_\_\_ mg/dL

a. Upper limit of normal: \_\_\_\_\_ mg/dL

b. Lower limit of normal: \_\_\_\_\_ mg/dL

20. A1AT phenotype:

- a. Pi Z heterozygote:
- Yes ( 1 )
  - No ( 2 )
  - Unknown ( 3 )
- b. Pi ZZ homozygote:
- Yes ( 1 )
  - No ( 2 )
  - Unknown ( 3 )

21. A1AT deficiency as a contributor to liver disease (*physician judgment*):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

**G. Autoantibody studies**

22. Date of blood draw for antinuclear antibody tests:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Repeat if date is greater than 5 years prior to screening.*

23. Antinuclear antibody (ANA):

- Positive ( \* )<sub>1</sub>
- Negative ( )<sub>2</sub>

**24.** \_\_\_\_\_

*\*If positive ANA value, complete either a or b depending on laboratory results:*

a. Titer (*record only the denominator*):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_ • \_\_\_\_\_

24. Date of blood draw for antismooth muscle antibody tests:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Repeat if date is greater than 5 years prior to screening.*

25. Antismooth muscle antibody (ASMA):

- Positive ( \* )<sub>1</sub>
- Negative ( )<sub>2</sub>

**26.** \_\_\_\_\_

*\*If positive ASMA value, complete either a or b depending on laboratory results:*

a. Titer (*record only the denominator*):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_ • \_\_\_\_\_

26. Date of blood draw for antimitochondrial antibody tests:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day                      mon                      year

*Repeat if date is greater than 5 years prior to screening.*

27. Antimitochondrial antibody (AMA):

- Positive ( \* )<sub>1</sub>
- Negative ( )<sub>2</sub>

**28.** \_\_\_\_\_

*\*If positive AMA value, complete either a or b depending on laboratory results:*

a. Titer (*record only the denominator*):

1/ \_\_\_\_\_

b. Units: \_\_\_\_\_ • \_\_\_\_\_

**H. Administrative information**

28. Study Physician PIN: \_\_\_\_\_

29. Study Physician signature:  
\_\_\_\_\_

30. Clinical Coordinator PIN: \_\_\_\_\_

31. Clinical Coordinator signature:  
\_\_\_\_\_

32. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## FLINT

## LT - Liver Tissue Banking

**Purpose:** To document collection of extra liver tissue and procedures for liver tissue banking.

**When:** Visits s and f72 when more than 2 cm of liver tissue are obtained during a biopsy. This form is expected when the Liver Biopsy Materials Documentation (SD) form says liver tissue was obtained for banking.

**By whom:** Clinical Coordinator, in consultation with study physician.

**Instructions:** Liver biopsy tissue should be obtained by a needle core biopsy (as opposed to a wedge biopsy) using a 16 gauge or greater needle. Whenever more than 2 cm of tissue are obtained during biopsy, place a 1-2 mm segment of liver tissue into a labeled 2.0 mL polypropylene cryovial pre-filled with approximately 1 mL of RNAlater® Solution. Liver tissue should be placed in RNAlater® Solution within one minute and no more than 5 minutes after biopsy. **Note: If the sample is not placed in RNAlater® Solution within 5 minutes, discard the cryovial.** Refrigerate the cryovial at 4° C overnight to allow thorough penetration of the liver tissue and then transfer to -70° C freezer for storage. Batch ship cryovials monthly on dry ice to the NIDDK Biosample Repository located at Fisher BioServices.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated:  
 \_\_\_\_\_  
 day mon year

5. Visit code (s or f72): \_\_\_\_\_

6. Form & revision: 1 t 2

7. Study: FLINT 7

## B. Liver biopsy/RNAlater® Solution storage procedures

8. Date of biopsy:  
 \_\_\_\_\_  
 day mon year

9. Was the liver tissue obtained from a needle core biopsy (as opposed to a wedge biopsy):  
 Yes ( 1 ) No ( 2 )

10. Was liver tissue placed in RNAlater® Solution preferably within 1 minute, but no more than 5 minutes after biopsy:  
 Yes ( 1 ) No ( \* 2 )

\* Discard liver tissue

11. Was liver tissue refrigerated at 4° C overnight, then transferred to freezer for storage:

Yes ( 1 ) No ( 2 )  
 12.

a. If no, describe conditions of local storage:

\_\_\_\_\_  
 \_\_\_\_\_

## C. Cryovial label

12. Attach duplicate cryovial label (make sure you attach the duplicate of the label attached to the cryovial holding the liver tissue from this biopsy):

## D. Administrative information

13. Clinical Coordinator PIN: \_\_\_\_\_

14. Clinical Coordinator signature: \_\_\_\_\_

15. Date form reviewed:  
 \_\_\_\_\_  
 day mon year

## FLINT

## MR - MRI Consent and Report Form

**Purpose:** To document the collection and transmittal of MRI data.

**When:** Visit s and f72.

**By whom:** Study Radiologist/Study Physician and Clinical Coordinator.

**Instructions:** Complete this form based on the consent documents signed by the patient. Patient may still participate in FLINT trial without an MRI. Please consult FLINT SOP VI for additional procedures.

**Before MRI examination** review the following basic information with subjects: 1) Subjects should fast for four or more hours if possible before the MRI examination. 2) Necessary medications are allowed with small amounts of water. 3) Rehearse breathing instructions with subject. Subjects will be asked to hold breath in end-inspiration to maximize breath-hold capacity and to reduce discomfort associated with breath-holding. 4) Explain the necessity of remaining still during the MRI examination.

**On day of MRI examination** confirm the following information with subjects: 1) Subject identity. 2) MRI consent is signed and a copy of consent kept on site. 3) No MRI contraindications. 4) Emptied bladder prior to scanning. 5) Subject has been weighed, and been asked height. 6) MRI-compatible clothing (no metal or metallic/shiny clothing). 7) Breathing instructions rehearsed and understood (subjects will be asked to hold breath in end-inspiration to maximize breath-hold capacity and reduce discomfort associated with breath-holding).

**Pre-MRI preparation:** 1) Subjects to be positioned supine. 2) Ensure subject comfortable on scanner table. 3) For 3T MRIs, place dielectric pad over liver. 4) Place phased-array coil (over dielectric pad, for 3T scanners) centered over the liver; ensure good connection to scanner.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form completed:  
 \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision: m r 1

7. Study: FLINT 7

8. Is FLINT MRI protocol currently in use  
at your center:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 17. \_\_\_\_\_

## B. Consent

9. Has the patient signed the FLINT MRI  
consent:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 17. \_\_\_\_\_

\* An MRI should not be performed unless consent is obtained.

## C. MRI results and information

10. Was an MRI performed:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )

12. \_\_\_\_\_

\* Complete item 11, then skip to item 17.

11. Reason MRI not performed  
(check all that apply)

a. Patient was not fasting: ( 1 )

b. Patient suffers from extreme  
claustrophobia: ( 1 )

c. Patients weight or girth exceeds MRI  
scanner capabilities: ( 1 )

d. Other (specify): ( 1 )

\_\_\_\_\_

17. \_\_\_\_\_

12. Technician name:

\_\_\_\_\_ print name

13. Date and time of MRI:

\_\_\_\_\_ day mon year

a. Time:

\_\_\_\_\_ : \_\_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm





**12. Reason form(s) not completed**  
*(check all that apply)*

- a. Patient was ill: (  )
- b. Patient refused procedure: (  )
- c. Procedure forgotten: (  )
- d. Other *(specify)*: (  )

\_\_\_\_\_ specify

**13. Attempts made to complete form(s)**  
*(check all that apply)*

- a. Attempted to reschedule procedure: (  )
- b. Attempted to collect interview data by phone from patient: (  )
- c. Attempted to gain patient cooperation: (  )
- d. Other *(specify)*: (  )

\_\_\_\_\_ specify

**E. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
\_\_\_\_\_

16. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**14. Dates images sent to MRI Reading Center**

**a. By CD/DVD:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**b. By secure in-server connection (*enter "m" if not available*):**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**D. Administrative information**

**15. Study Radiologist or Study Physician**

PIN:

\_\_\_\_\_

**16. Study Radiologist or Study Physician**

signature:

\_\_\_\_\_

**17. Clinical Coordinator PIN:**

\_\_\_\_\_

**18. Clinical Coordinator signature:**

\_\_\_\_\_

**19. Date form reviewed:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year



**12. Temperature (oral)**

- a. Degrees: \_\_\_\_\_ • \_\_\_\_\_
- b. Scale: \_\_\_\_\_
- Fahrenheit ( 1 )
- Centigrade ( 2 )

**13. Blood pressure**

- a. Systolic: \_\_\_\_\_ mmHg
- b. Diastolic: \_\_\_\_\_ mmHg

**14. Resting radial pulse:**

\_\_\_\_\_ beats/minute

**15. Respiratory rate:**

\_\_\_\_\_ breaths/minute

**19. Focused liver signs (check all that apply)**

- a. None: ( 1 )
- b. Jaundice: ( 1 )
- c. Palmar erythema: ( 1 )
- d. Contractures: ( 1 )
- e. Pedal edema: ( 1 )
- f. Spider angiomata: ( 1 )
- g. Asterixis: ( 1 )
- h. Hepatic encephalopathy: ( 1 )
- i. Wasting: ( 1 )
- j. Fotor: ( 1 )
- k. Pruritus: ( 1 )
- l. Other, (specify): ( 1 )

\_\_\_\_\_ specify

**C. Examination findings**

**16. Chest and lungs:**

- Normal ( 1 )
- Abnormal **17.** \_\_\_\_\_ ( 2 )
- \_\_\_\_\_ specify abnormality

**17. Heart:**

- Normal ( 1 )
- Abnormal **18.** \_\_\_\_\_ ( 2 )
- \_\_\_\_\_ specify abnormality

**18. Abdomen abnormalities present (check all that apply):**

- a. None: ( 1 )
- b. Ascites: ( 1 )
- c. Obese: ( 1 )
- d. Splenomegaly: ( 1 )
- e. Hepatomegaly: ( 1 )

If Yes, span at right midclavicular line:

\_\_\_\_\_ • \_\_\_\_\_  
cm

**D. Administrative information**

**20. Study Physician PIN:** \_\_\_\_\_

**21. Study Physician signature:**  
\_\_\_\_\_

**22. Clinical Coordinator PIN:** \_\_\_\_\_

**23. Clinical Coordinator signature:**  
\_\_\_\_\_

**24. Date form reviewed:**  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



## FLINT

## QF - SF-36v2 Health Survey

**Purpose:** To obtain the patient's views of his/her health in the FLINT trial.

**When:** At screening visits and follow-up visits f24, f48, f72, and f96.

**Administered by:** Self-administered, but Clinical Coordinator must be available at visit to answer questions and to review completed forms.

**Respondent:** Patient.

**Instructions:** The Clinical Coordinator should complete section A and attach a MACO label to each of pages 2-7 before giving the questionnaire to the patient for completion. The Clinical Coordinator should review the completed questionnaire for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-7 and the Clinical Coordinator should complete section B.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit (*date patient completed the form*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
           day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   q     f     1  

7. Study: FLINT   7  

**B. Administrative information**

*(To be completed by clinical center staff after survey is completed.)*

8. Clinical Coordinator

a. PIN: \_\_\_\_\_

b. Signature: \_\_\_\_\_

9. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
           day                  mon                  year

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

## SF-36v2 Health Survey

**Instructions:** This survey asks for your views about your health. This information will help keep track of how you feel and how well you are able to do your usual activities. *Thank you for completing this survey!*

*(Items 1-9 are reserved for clinical center use.)*

**10.** In general, would you say your health is:

**Circle one**

- Excellent ..... 1
- Very good ..... 2
- Good ..... 3
- Fair ..... 4
- Poor ..... 5

**11.** Compared to one year ago, how would you rate your health in general now?

**Circle one**

- Much better now than one year ago ..... 1
- Somewhat better now than one year ago ..... 2
- About the same as one year ago ..... 3
- Somewhat worse now than one year ago ..... 4
- Much worse now than one year ago ..... 5

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

12. The following questions are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

Activities	Circle one		
	Yes, limited a lot	Yes, limited a little	No, not limited at all
a. <u>Vigorous activities</u> , such as running, lifting heavy objects, participating in strenuous sports:	1	2	3
b. <u>Moderate activities</u> , such as moving a table, pushing a vacuum cleaner, bowling, or playing golf:	1	2	3
c. Lifting or carrying groceries:	1	2	3
d. Climbing <u>several</u> flights of stairs:	1	2	3
e. Climbing <u>one</u> flight of stairs:	1	2	3
f. Bending, kneeling, or stooping:	1	2	3
g. Walking <u>more than a mile</u> :	1	2	3
h. Walking <u>several hundred yards</u> :	1	2	3
i. Walking <u>one hundred yards</u> :	1	2	3
j. Bathing or dressing yourself:	1	2	3



*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

13. During the past 4 weeks, how much of the time have you had any of the following problems with your work or other regular daily activities as a result of your physical health?

	<b>Circle one</b>				
	<b>All of the time</b>	<b>Most of the time</b>	<b>Some of the time</b>	<b>A little of the time</b>	<b>None of the time</b>
a. Cut down on the <u>amount of time</u> you spent on work or other activities:	1	2	3	4	5
b. <u>Accomplished less</u> than you would like:	1	2	3	4	5
c. Were limited in the <u>kind</u> of work or other activities:	1	2	3	4	5
d. Had difficulty performing the work or other activities (for example, it took extra effort):	1	2	3	4	5

14. During the past 4 weeks, how much of the time have you had any of the following problems with your work or other regular daily activities as a result of any emotional problems (such as feeling depressed or anxious)?

	<b>Circle one</b>				
	<b>All of the time</b>	<b>Most of the time</b>	<b>Some of the time</b>	<b>A little of the time</b>	<b>None of the time</b>
a. Cut down on the <u>amount of time</u> you spent on work or other activities:	1	2	3	4	5
b. <u>Accomplished less</u> than you would like:	1	2	3	4	5
c. Did work or other activities <u>less carefully than usual</u> :	1	2	3	4	5

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

15. During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?

**Circle one**

- Not at all ..... 1
- Slightly ..... 2
- Moderately ..... 3
- Quite a bit ..... 4
- Extremely ..... 5

16. How much bodily pain have you had during the past 4 weeks?

**Circle one**

- None ..... 1
- Very mild ..... 2
- Mild ..... 3
- Moderate ..... 4
- Severe ..... 5
- Very severe ..... 6

17. During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?

**Circle one**

- Not at all ..... 1
- A little bit ..... 2
- Moderately ..... 3
- Quite a bit ..... 4
- Extremely ..... 5

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

18. These questions are about how you feel and how things have been with you during the past 4 weeks. For each question, please give the one answer that comes closest to the way you have been feeling. How much of the time during the past 4 weeks:

	<b>Circle one</b>				
	<b>All of the time</b>	<b>Most of the time</b>	<b>Some of the time</b>	<b>A little of the time</b>	<b>None of the time</b>
a. Did you feel full of life?	1	2	3	4	5
b. Have you been very nervous?	1	2	3	4	5
c. Have you felt so down in the dumps that nothing could cheer you up?	1	2	3	4	5
d. Have you felt calm and peaceful?	1	2	3	4	5
e. Did you have a lot of energy?	1	2	3	4	5
f. Have you felt downhearted and depressed?	1	2	3	4	5
g. Did you feel worn out?	1	2	3	4	5
h. Have you been happy?	1	2	3	4	5
i. Did you feel tired?	1	2	3	4	5

19. During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives, etc.)?

**Circle one**

- All of the time ..... 1
- Most of the time ..... 2
- Some of the time ..... 3
- A little of the time ..... 4
- None of the time ..... 5

*Affix label here*

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

20. How TRUE or FALSE is each of the following statements for you:

	Circle one				
	Definitely true	Mostly true	Don't know	Mostly false	Definitely false
a. I seem to get sick a little easier than other people	1	2	3	4	5
b. I am as healthy as anybody I know	1	2	3	4	5
c. I expect my health to get worse	1	2	3	4	5
d. My health is excellent	1	2	3	4	5

Today's date:

\_\_\_\_\_

**Thank you for completing this survey, please return this questionnaire to the coordinator.**

**FLINT****RC - Rescreen in FLINT**

**Purpose:** To rescreen a patient who was previously found to be ineligible for FLINT due to a temporary ineligibility. This form must be the first form completed and keyed for the patient for this screening cycle (the date in item 4 of this form will be the date that the 112-day screening window starts). The original RG form completed for the patient must remain in the data system. New screening labels will be available for printing upon keying this form.

**When:** Visit code s.

**Administered by:** Clinical Coordinator.

**Respondent:** None.

**Instructions:** Complete this form for a patient who was previously found to be ineligible for FLINT due to a temporary ineligibility and who now wants to rescreen for FLINT. In general, the patient must complete all FLINT screening data collection anew and all previously keyed FLINT screening forms should be deleted from the data system except the RG and possibly the CG form. If needed, update section C (only education and employment history) of the RG form and update the keyed record (you cannot delete the RG form); note that the patient's age will not change since it is based on the date of the RG form. If any changes are made in section C, the review date in section F should be updated. If blood was collected successfully for the Genetics Repository, a new sample does not need to be collected and the previously completed CG form may remain unchanged in the data system. Plasma and serum must be collected anew. If the same liver biopsy is being used to satisfy eligibility now and slides were sent to the DCC, additional slides do not need to be sent.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                        s   \_\_\_\_\_

6. Form & revision:                        r     c     1  

7. Study:                                      FLINT   7  

**B. FLINT participation**

8. Date in item 4 of original FLINT RG form:  
 \_\_\_\_\_  
 day                      mon                      year

**C. Administrative information**

9. Clinical Coordinator PIN: \_\_\_\_\_

10. Clinical Coordinator signature:  
 \_\_\_\_\_

11. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

**Purpose:** To record dispensing and return of study drug.

**When:** Visits rz, f12, f24, f36, f48, f60, and f72. Use visit code “n” if study drug is dispensed or returned at a time other than study visits or if a second form is needed at a visit to document returned study drug.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Instructions:** This form documents dispensing of study drug, return of unused study drug, and return of empty study drug bottles. A three month supply (3 bottles) of study drug is dispensed at the rz, f12, f24, f36, f48 and f60 visits. The patient should be instructed to take one capsule daily.

The patient should be queried about return of empty study drug bottles at all study visits. Each time a patient returns used study drug bottles to the clinical center, the clinical coordinator should count and record the remaining number of capsules in the study drug bottles. This form allows recording of the return of up to four bottles. If more than four bottles are returned at a time, complete a second form (using visit code “n”) to record the information for the remaining bottles.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit: \_\_\_\_\_

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_

6. Form & revision:  r   d   1

7. Study: FLINT  7

### 10. Reason for not dispensing study drug (check all that apply)

- a. Not a scheduled study drug dispensing visit: ( )
- b. Study physician-directed treatment interruption/termination: ( )
- c. Unwillingness of the patient to take study drug: ( )
- d. Other (specify): ( )

\_\_\_\_\_ specify

16. ←

11. How many bottles were dispensed: \_\_\_\_\_  
(1-3)

### B. Study drug dispensing

8. Is this a second form for returning additional drug bottles at this visit:

Yes No  
( \* ) ( )

16. ←

\* Key first form before this form.

9. Will study drug be dispensed today:

Yes No  
( ) ( )

11. ←

### Bottle tear-off label

12.

*Affix label here*

13.

*Affix label here*

14.

*Affix label here*

15. How was the study drug dispensed to the patient (*check only one*) :

- In person ( 1 )
- Mail ( 2 )
- Other (*specify*) ( 3 )

\_\_\_\_\_ specify

**C. Study drug return**

16. Were any bottles returned at this visit:  
 Yes ( 1 )      No ( 2 )

23. ←

17. Number of bottles returned (*if more than 4 bottles are returned, complete a second RD form*):

\_\_\_\_\_  
(1-4)

	<b>a. Bottle No.</b>	<b>b. Number of capsules returned</b>
18.	_____	_____ (00-40)
19.	_____	_____ (00-40)
20.	_____	_____ (00-40)
21.	_____	_____ (00-40)

**D. Remaining bottles**

22. Are any additional bottles being returned:  
 Yes ( \* 1 )      No ( 2 )

*\*If yes, complete a second RD form using visit code "n."*

**E. Administrative information**

23. Study Physician PIN: \_\_\_\_\_

24. Study Physician signature:  
 \_\_\_\_\_

25. Clinical Coordinator PIN: \_\_\_\_\_

26. Clinical Coordinator signature:  
 \_\_\_\_\_

27. Date form reviewed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year





14. In what country was the patient born (*check only one*):

- Continental US (includes Alaska) or Hawaii ( 1 )
  - Other, (*specify*): ( 2 )
- \_\_\_\_\_
- specify

15. Highest educational level achieved by patient (*show the patient Flash Card #3 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never attended school ( 0 )
- Kindergarten, pre kindergarten, or younger ( 1 )
- Grades 1 to 5 ( 2 )
- Grades 6-8 ( 3 )
- Grades 9-11 ( 4 )
- Completed high school ( 5 )
- Some college or post high school education or training ( 6 )
- Bachelor's degree or higher ( 7 )

16. Is the patient currently employed:

Yes ( 1 )      No ( 2 )

19.

17. What is the patient's current occupation:

\_\_\_\_\_

specify occupation

18. About how many hours does the patient work each week: \_\_\_\_\_

# hours

19. Which of the following categories best characterizes the patient's occupational history (*show the patient/parent Flash Card #4 and ask the respondent to pick the category that describes the patient best; check only one*):

- Never employed ( 0 )
- Laborer ( 1 )
- Clerical ( 2 )
- Professional ( 3 )
- Homemaker ( 4 )
- Other, (*specify*): ( 5 )

\_\_\_\_\_

specify

20. Marital status of the patient (*show the patient Flash Card #5 and ask the respondent to pick the category that describes the patient best; check only one*):

- Single, never married ( 1 )
- Married or living in marriage-like relationship ( 2 )
- Separated, divorced, or annulled ( 3 )
- Widowed ( 4 )

21. Combined annual income before taxes of all members of patient's household (*show the patient/parent Flash Card #6 and ask the respondent to pick the category that describes the patient's combined household income best; check only one*):

- Less than \$15,000 ( 1 )
- \$15,000 - \$29,999 ( 2 )
- \$30,000 - \$49,999 ( 3 )
- \$50,000 or more ( 4 )

**D. Previous registration in a NASH CRN study**

22. Has the patient ever been assigned an ID number in a NASH CRN study:

Yes ( 1 )      No ( 2 )

26.

23. In which NASH CRN studies has the patient previously been registered (*check all that apply*):

- a. NAFLD Database: ( 1 )
- b. PIVENS: ( 1 )
- c. TONIC: ( 1 )
- d. NAFLD Adult Database 2: ( 1 )
- e. NAFLD Pediatric Database 2: ( 1 )
- f. Other, (*specify*): ( 1 )

\_\_\_\_\_

specify

24. ID Number previously assigned to patient (*record patient ID in item 2*): \_\_\_\_\_

25. Code previously assigned to patient (*record patient code in item 3*): \_\_\_\_\_

27.

**E. ID assignment**

*(If a STOP condition was checked in section B or C, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.)*

26. Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC      #####, zzz
----------------------

**F. Administrative information**

27. Clinical Coordinator PIN:      \_\_\_\_\_

28. Clinical Coordinator signature:  
\_\_\_\_\_

29. Date form reviewed:  
\_\_\_\_\_ day      \_\_\_\_\_ mon      \_\_\_\_\_ year



**D. Laboratory test exclusions**

**11. Hepatic Decompensation**

a. Is the patient's serum albumin less than 3.2 g/dL:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

b. Is the patient's INR greater than 1.3:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

c. Is the patient's direct bilirubin greater than 1.3 mg/dL:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

d. Does the patient have a history of esophageal varices, ascites, or hepatic encephalopathy:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**12. Other laboratory measures**

a. Is serum ALT greater than 300 U/L:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

b. Is serum creatinine greater than or equal to 2.0 mg/dL:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

c. Is the platelet count less than 100,000 mm<sup>3</sup>:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

d. Tests are outside time window and clinic chose not to repeat tests:

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**E. Medication use exclusions**

**13. Use of drugs associated with NAFLD for more than 2 weeks in the past 12 months:**

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**F. Other chronic liver disease exclusions**

**14. Does the patient have ongoing autoimmune liver disease defined by liver histology:**

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**15. Does the patient have primary biliary cirrhosis defined by at least two of the following criteria (*check all that apply*)**

a. Alkaline phosphatase above the upper limit of normal: ( 1 )

b. Presence of antimitochondrial antibody (AMA): ( 1 )

c. Histologic evidence of nonsuppurative destructive cholangitis and destruction of interlobular bile ducts: ( 1 )

d. Were two criteria checked in 15a-c:  
 (Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**16. Does the patient have known primary sclerosing cholangitis:**

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

**17. Does the patient have Wilson's disease defined by ceruloplasmin below the lower limit of normal and liver histology consistent with Wilson's disease:**

(Yes) (No)  
 ( 1 ) ( 2 )  
  ~~Elig~~

18. Does the patient have alpha-1-antitrypsin (A1AT) deficiency defined by a suggestive liver histology confirmed by A1AT level less than normal (*physician judgment*):

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

19. Hemochromatosis

a. Does the patient have a history of hemochromatosis:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

b. Does the patient have iron overload as defined by presence of 3+ or 4+ stainable iron on liver biopsy:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

20. Do any of the patient's assessments show evidence of other chronic liver disease

a. Drug induced liver disease as defined on the basis of typical exposure and history:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

b. Known bile duct obstruction:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

c. Suspected or proven liver cancer:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

d. Hepatitis B (HBsAg):

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

e. Hepatitis C (HCV RNA or anti-HCV):

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

f. Any other type of liver disease other than NASH that warrants exclusion from the trial:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

**G. Liver biopsy exclusions**

21. Presence of cirrhosis on liver biopsy:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

22. Inability to safely undergo a liver biopsy:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

23. Biopsy out of window and patient chose not to repeat:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

24. Biopsy inadequate for scoring and patient chose not to repeat:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

25. Local pathologist did not find borderline or definite steatohepatitis:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

26. NAFLD activity score (NAS) less than 4 or any subscore (steatosis, ballooning, lobular inflammation) equal to 0:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

**H. Other medical exclusions**

27. History of bariatric surgery or plans to have bariatric surgery during the FLINT trial:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

28. History of biliary diversion:

Yes ( 1 )      No ( 2 )  
  ~~Elig~~

29. Known positivity for HIV infection:

Yes ( 1 )      No ( 2 )  
 Yes     No

30. Known active, serious medical disease with a likely life-expectancy of less than 5 years:

Yes ( 1 )      No ( 2 )  
 Yes     No

31. Known active substance abuse (inhaled or injected) in the past 12 months:

Yes ( 1 )      No ( 2 )  
 Yes     No

32. Participated in an IND trial in the past 30 days:

Yes ( 1 )      No ( 2 )  
 Yes     No

33. Other conditions which, in the opinion of the investigator, would impede compliance or hinder completion of the study:

Yes ( 1 )      No ( 2 )  
 Yes     No

**I. Birth control exclusion**

34. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient (female of childbearing potential) willing to use effective birth control methods to avoid pregnancy during the 72 weeks of treatment (check "Yes" if patient is male or not of childbearing potential):

Yes ( 1 )      No ( 2 )  
 Yes     No

**J. Eligibility check on day of randomization**

(do in person if patient is of childbearing potential; otherwise, these checks may be done over the telephone with the patient on the day of randomization)

35. Was an ineligibility condition checked or an eligibility not ascertained in items 9-34:

Yes ( 1 )      No ( \* 2 )  
 Yes     No

\*Key forms RG, AD, BG, BP, CG, HF, LD, LR, LS, MR, PE, QF, and SD. Run the Randomization Task on your clinic data system.

36. Were any stops or ineligible conditions other than "missing form RZ" identified by the Randomization Task:

Yes ( 1 )  
 Yes     No

No ( 2 )  
 Yes     No

Task not run because patient is known to be ineligible ( 3 )  
 Yes     No

37. Does the patient feel well today:

Yes ( 1 )      No ( \* 2 )  
 Yes     No

\*Defer randomization until the patient feels well; when the patient returns to attempt randomization again, review all items on this form and update each item as needed.

38. Is the patient male:

Yes ( 1 )      No ( 2 )  
 Yes     No

39. Is the patient of childbearing potential:

Yes ( \* 1 )      No ( 2 )  
 Yes     No

\*Administer pregnancy test.

40. Is the patient pregnant (positive pregnancy test on the day of randomization):

Yes ( \* 1 )      No ( 2 )  
 Yes     No

\*Go to item 44.

41. Is the patient currently breast feeding

(Yes  1) (No  2)

**Elig**

\*Go to item 44.

42. In the Study Physician's judgment, is there any reason to exclude the patient from randomization:

(Yes  1) (No  2)

**Elig**

\*If Yes, specify reason and then go to item 44:

\_\_\_\_\_ specify reason

43. Does the patient still consent to randomization (you should ask the patient to orally affirm his/her consent):

(Yes  1) (No  2)

**45.**  **Elig**

\*Go to item 45 and complete this form. Then key this form and run the Randomization Task on your clinic data system to randomize the patient.

†Complete items 44-49 and key the form. The form must be keyed to document the reasons for ineligibility for FLINT.

**K. Reasons for ineligibility for ineligible patients**

Note: Complete this section for ineligible patients only.

44. Reason for ineligibility (check all that apply)

a. Reason covered in items 9-43: (  )

b. Other reason not covered on this form (specify): (  )

\_\_\_\_\_ specify

**L. Administrative information**

45. Study Physician PIN: \_\_\_\_\_

46. Study Physician signature: \_\_\_\_\_

47. Clinical Coordinator PIN: \_\_\_\_\_

48. Clinical Coordinator signature: \_\_\_\_\_

49. Date form reviewed  
 (Note re: This form must be reviewed on the day of randomization; if it was keyed prior to the randomization day, update it, re-review it on the day of randomization, and key the revised date of review.):

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

(NOTE: If patient was not present in the clinic to receive the assigned medication, ship the medication to the patient by overnight delivery service.)





**D. Biopsy specimens and stained slides at the clinical center**

12. Was a sample of liver tissue obtained for banking:

(<sup>Yes</sup>  
\* 1)      (No  
2)

\* If Yes, complete the Liver Tissue Banking (LT) form

13. What stained slides from the biopsy are available at the clinical center (check all that apply)

- a. H & E stain: ( 1)
- b. Masson's trichrome stain: ( 1)
- c. Iron stain: ( 1)

**E. Unstained slides to be sent to the DCC**

14. Are unstained slides available for sending to the DCC:

(<sup>Yes</sup>  
1)      (No  
2)

17.

15. How many unstained slides will be sent to the DCC: \_\_\_\_\_

16. What are the slide sequence numbers for those slides (from the NASH CRN labels on each slide - use permanent labels, sequence numbers 01-60):

- a. Slide sequence number \_\_\_\_\_  
01-60
- b. Slide sequence number \_\_\_\_\_  
01-60
- c. Slide sequence number \_\_\_\_\_  
01-60
- d. Slide sequence number \_\_\_\_\_  
01-60
- e. Slide sequence number \_\_\_\_\_  
01-60
- f. Slide sequence number \_\_\_\_\_  
01-60
- g. Slide sequence number \_\_\_\_\_  
01-60
- h. Slide sequence number \_\_\_\_\_  
01-60
- i. Slide sequence number \_\_\_\_\_  
01-60
- j. Slide sequence number \_\_\_\_\_  
01-60

**F. Stained slides to be sent to the DCC**

(The institution's stained slides must be sent to the DCC only if fewer than 3 unstained slides will be sent to the DCC)

17. Are any stained slides to be sent to the DCC:

(<sup>Yes</sup>  
1)      (No  
2)

25.

18. How many stained slides are to be sent to the DCC: \_\_\_\_\_

19. Sequence number of slides to be sent to DCC

a. Slide sequence number of H & E stain:

\_\_\_\_\_ 81-90

b. Slide sequence number of Masson's trichrome stain:

\_\_\_\_\_ 81-90

c. Slide sequence number of iron stain:

\_\_\_\_\_ 81-90

d. Slide sequence number of other stain:

\_\_\_\_\_ 81-90

20. Are any stained slides to be returned to the clinic:

(<sup>Yes</sup>  
1)      (No  
2)

25.

21. How many stained slides are to be returned to the clinic: \_\_\_\_\_

22. List sequence numbers of those slides to be returned

a. Slide sequence number: \_\_\_\_\_  
81-90

b. Slide sequence number: \_\_\_\_\_  
81-90

c. Slide sequence number: \_\_\_\_\_  
81-90

d. Slide sequence number: \_\_\_\_\_  
81-90

23. When do the stained slides need to be returned to the clinical center (check only one):

Immediately after central review ( 1)

At the end of the NASH CRN funding period ( 2)

24. Which pathology department did these slides come from:

NASH CRN clinical center's pathology department

( 1 )

25.

Other, (specify):

( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the FLINT trial record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**G. Administrative information**

25. Clinical Coordinator PIN: \_\_\_\_\_

26. Clinical Coordinator signature:  
\_\_\_\_\_

27. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

## FLINT

## SR - Serious Adverse Event/IND Safety Report

**Purpose:** To report serious adverse events recorded on the Interim Event Report (IE) form that satisfy the FDA expedited FDA Safety Report requirements outlined in the FLINT Trial protocol. In order to satisfy FDA expedited *IND Safety Report* requirements the event must be **SERIOUS, UNEXPECTED, AND** have a **REASONABLE POSSIBILITY** of being caused by FLINT study drug, as defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered “**SERIOUS**” if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgment, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, “**REASONABLE POSSIBILITY**” means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Unexpected adverse event or unexpected suspected adverse reaction.* An adverse event or suspected adverse reaction is considered “**UNEXPECTED**” if it is not listed in the obeticholic acid investigator’s brochure or is not listed at the specificity or severity that has been observed for your patient.

**When:** The SR form should be used only for reporting a serious and unexpected adverse event which meets the IND Safety Report criteria as stated above, or when a followup report is needed for a previously completed SR form. When the serious adverse event does not meet the expedited IND Safety Report criteria, use the Interim Event Report (IE) form to report the event.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form **within 2 business days**. The short name (item 24) and the severity grade (item 25) are to be obtained from the NCI’s Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). (Click on Studies then click on FLINT). Report the serious adverse event to your IRB per local guidelines. Send the Data Coordinating Center the following:

- 1) A copy of this SR form and corresponding IE form
- 2) A narrative description of the event that includes all of the information provided on the SR and IE forms and a justification of why the event is serious, unexpected and has reasonable possibility of being caused by FLINT study drug (see FLINT SOP I, section 6.16).
- 3) A copy of your report to your IRB, if applicable

The Data Coordinating Center will submit a preliminary copy of the report to NIDDK (Sponsor) for further review within 3 business days. If NIDDK staff determines that an expedited IND Safety Report is required, a final report will be submitted to the FDA (within 15 days). Intercept Pharmaceuticals (manufacturer of study drug), the DSMB, and Steering Committee will be notified of all serious adverse events requiring an expedited IND safety report within 7 days of keying the SR form. For more information, see FLINT SOP I, section 6.16.

**Followup report:** A followup report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patients condition or in the physicians judgment about the event since the previous report was filed.

**A. Center, patient and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year5. Visit code: \_\_\_\_\_  
*If report not associated with a visit, fill in “n.”*6. Form & revision: s r 37. Study: FLINT 7

**B. Participant information**

8. Date randomized in FLINT:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

9. Gender:  
 Male ( 1 )  
 Female ( 2 )

10. Age at time of adverse event: \_\_\_\_\_ years

**C. Determination of an serious adverse report**

11. Is there evidence to suggest a causal relationship between FLINT study drug and the adverse event:  
 Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

15.

12. Is this a serious adverse event:  
 Yes ( 1 ) No ( 2 )

15.

*If Yes, then select all the reasons that apply:*


- a. Severity Grade 4 or 5: ( 1 )
- b. Required inpatient hospitalization or prolonged existing hospitalization: ( 1 )
- c. Persistent or significant incapacity or substantial disruption of ability to conduct normal life functions: ( 1 )
- d. Jeopardized patient and required medical or surgical intervention to prevent a serious event: ( 1 )
- e. Congenital abnormality or birth defect: ( 1 )

13. Is this an unexpected adverse event:  
 Yes ( 1 ) No ( 2 )

15.

14. Reason the adverse event was unexpected:  
 Not listed in the obeticholic acid investigator brochure ( 1 )  
 Listed in the obeticholic acid investigator's brochure, but not at the specificity or severity that has been observed ( 2 )  
 Listed in the obeticholic acid investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of obeticholic acid ( 3 )

15. Did you select "Yes" for items 11, 12, and 13:  
 Yes ( \* 1 ) No ( † 2 )



*\*NIDDK will determine if an expedited IND Safety Report will be submitted to the FDA within 15 calendar days.*

*†Use FLINT forms HI and IE to report adverse events that are not serious, not associated with the FLINT study drug, or are expected. Do not key this form.*

**D. Serious adverse event description**

16. Is this the first report or a followup report for this serious adverse event:  
 First report ( 1 )  
 Followup report ( 2 )

17. Date of serious adverse event onset:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

18. Date serious adverse event was reported to clinical center:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

19. Describe the serious adverse event:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

20. Medications or supplements other than FLINT study drug in use at the time of serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Specify tests/treatments and comorbidities:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. Was an unscheduled liver biopsy performed:

(<sup>Yes</sup>  
\*<sub>1</sub>)      (<sub>2</sub><sup>No</sup>)

*\*Attach a copy of the institutional pathology report to the SR form.*

23. Did the serious adverse event result in significant sequelae:

(<sub>1</sub><sup>Yes</sup>)      (<sub>2</sub><sup>No</sup>)

*Specify:*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Short name for serious adverse event (short names for AEs are listed in the CTCAE v3.0 document available at [www.nashern.com](http://www.nashern.com); click on Studies and then click on FLINT):

\_\_\_\_\_  
\_\_\_\_\_

25. Severity grade (severity grades are listed in the CTCAE v3.0 document available at [www.nashern.com](http://www.nashern.com); click on Studies and then click on FLINT):

Grade 3 - Severe ( <sub>1</sub> )  
Grade 4 - Life threatening or disabling ( <sub>2</sub> )  
Grade 5 - Death ( \*<sub>3</sub> )

*\*Complete and key the Death Report (DR) form.*

26. Current status of serious adverse event (check only one):

Resolved ( <sub>1</sub> )  
Active ( <sub>2</sub> )  
Unknown ( <sub>3</sub> )

28.

28.

27. Date resolved:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

28. Additional comments on serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E. Administrative information**

29. Study Physician PIN: \_\_\_\_\_

30. Study Physician signature:  
\_\_\_\_\_

31. Clinical Coordinator PIN: \_\_\_\_\_

32. Clinical Coordinator signature:  
\_\_\_\_\_

33. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                  day                  mon                  year

*Key this form and send the DCC within  
2 business days:*

- (1) A copy of this SR form*
- (2) A narrative description of the serious  
adverse event*
- (3) A copy of your report to your IRB.*

*We are asking for copies of these reports on serious adverse events so that we assure appropriate and timely study wide review. The serious adverse event report will be reviewed by Dr. Jeanne Clark, the Safety Officer, and NIDDK (Sponsor).*

**FLINT****Transfer Notification****Purpose:** To record a transfer from one center to another center.**When:** Upon transferring to the enrolling center and prior to the first visit at the adopting center.**By whom:** Clinical coordinator of each center (enrolling center: sections A-C, adopting center: sections D- E).**Instruction: For enrolling center:** When patient notifies enrolling center of upcoming transfer, the enrolling clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recently completed HI, LR, RD, and PE/PF forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0543). The DCC will key the form.**A. Enrolling center and patient identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of notification of intent to transfer:  
 \_\_\_\_\_  
 day mon year
5. Visit code:   n
6. Form & revision:   t  n  1
7. Study:   FLINT  7

**B. Last followup visit information**

8. Date of last followup visit:  
 \_\_\_\_\_  
 day mon year
9. Visit ID code of last completed followup visit:  
 \_\_\_\_\_
10. Have cryovial and slide labels been sent to the adopting center:  
 Yes ( 1 ) No ( \* 2 )

\* Send the cryovial and slide labels to the adopting center.

**C. Enrolling center administrative information**

11. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
12. Clinical coordinator ID: \_\_\_\_\_
13. Clinical coordinator signature:  
 \_\_\_\_\_

**D. Adopting center, patient and visit identification**

14. Adopting center ID: \_\_\_\_\_
15. Patient ID (must be same as in Section A):  
 \_\_\_\_\_
16. Patient code: (must be same as in Section A):  
 \_\_\_\_\_
17. Expected date of first followup visit at adopting center:  
 \_\_\_\_\_  
 day mon year
18. Visit ID code for expected first followup visit at adopting center:  
  f

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.***E. Adopting center administrative information**

19. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
20. Clinical coordinator ID: \_\_\_\_\_
21. Clinical coordinator signature:  
 \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*

# NASH CRN CyNCh



## CyNCH Form Abbreviations and Case Report Form Names

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<b>Form</b>	<b>Form Name</b>
AD	AUDIT – Alcohol Use Disorders Identification Test
AE	Adverse Event Report
BH	Baseline History
BP	Blood Processing for Plasma and Serum
CG	Genetic Consent and Blood Collection Documentation
CO	Database Closeout/Closeout Form
CR	Central Histology Review
DD	DEXA Scan for Bone Mineral Density
DR	Death Report
FH	Follow-up Medical History
HF	Liver Biopsy Histology Findings
LP	Symptoms of Liver Disease (Children)
LR	Laboratory Results - Tests Done at s1 and During Followup
LS	Laboratory Results - Tests Done Only During Screening
LT	Liver Tissue Banking
MR	MRI Report
MV	Missed or Incomplete Visit
ND	Nutrition Data Documentation
PE	Physical Examination
PF	Focused Physical Examination
PQ	Pediatric QOL: Parent Report for Teens (Age 13-17)
PR	Pediatric QOL: Parent Report for Children (Age 8-12)
PW	Pediatric QOL: Child Report (Age 8-12)
PY	Pediatric QOL: Teen Report (Age 13-17)
RC	Rescreen Form
RD	Study Drug Dispensing and Return
RG	Registration
RZ	Randomization Checks
SD	Liver Biopsy Materials Documentation
SR	Serious Adverse Event/IND Safety Report
TN	Transfer Notification

---

## AD – Alcohol Use Disorders Identification Test (AUDIT)

**Purpose:** To screen for current heavy drinking and/or active alcohol abuse or dependence.

**When:** Visit s.

**Administered by:** Self-administered (*age 13 or older*), interviewer administered (*age 8-12*). Clinical Coordinator must be available at visits to answer questions and review completed forms.

**Respondent:** Patient, age 8 or older. Patients age 13 or older should complete the form without help from family. Clinical Coordinator/parent can assist patients age 8-12.

**Instructions:** Flash Card #9, Drink Equivalents, may be used with this form. The Clinical Coordinator should complete section A below and write the patient ID on pages 2-3. If the form is self-administered by the patient, the patient should meet with the Clinical Coordinator, be trained in completion of the form, and then should complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-3 and the Clinical Coordinator then should complete section B below.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit (*date patient completed the form*):  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year
5. Visit code:   s   \_\_\_\_\_
6. Form & revision:   a     d     1
7. Study:   CyNCh     8

### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the questionnaire completed:  
 Self-administered by patient ( )  
10  Interview in English ( )  
 Interview with translator ( )
9. Who was the respondent (*check all that apply*):  
 a. Patient: ( )  
 b. Patient's mother or female guardian: ( )  
 c. Patient's father or male guardian: ( )  
 d. Other (*specify*): ( )

\_\_\_\_\_ specify

### 10. Clinical Coordinator

- a. PIN: \_\_\_\_\_
- b. Signature: \_\_\_\_\_

### 11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

**AD – Alcohol Use Disorders Identification Test (AUDIT)**

**Instructions:** This survey asks for your views about your alcohol use. Please check one for each question below (*items 1-11 are for clinical center use only*).

12. How often do you have a drink containing alcohol?

- |       |                    |                              |                              |                              |
|-------|--------------------|------------------------------|------------------------------|------------------------------|
| Never | Monthly<br>or less | Two to four<br>times a month | Two to three<br>times a week | Four or more<br>times a week |
| ( 0 ) | ( 1 )              | ( 2 )                        | ( 3 )                        | ( 4 )                        |
- ↳ **22.**

13. How many drinks containing alcohol do you have on a typical day when you are drinking?

- |        |        |        |        |            |
|--------|--------|--------|--------|------------|
| 1 or 2 | 3 or 4 | 5 or 6 | 7 to 9 | 10 or more |
| ( 0 )  | ( 1 )  | ( 2 )  | ( 3 )  | ( 4 )      |

14. How often do you have six or more drinks on one occasion?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

15. How often during the last year have you found that you were not able to stop drinking once you had started?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

16. How often during the last year have you failed to do what was normally expected from you because of drinking?

- |       |                      |         |        |                          |
|-------|----------------------|---------|--------|--------------------------|
| Never | Less than<br>monthly | Monthly | Weekly | Daily or<br>almost daily |
| ( 0 ) | ( 1 )                | ( 2 )   | ( 3 )  | ( 4 )                    |

17. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

18. How often during the last year have you had a feeling of guilt or remorse after drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

19. How often during the last year have you been unable to remember what happened the night before because you had been drinking?

Never	Less than monthly	Monthly	Weekly	Daily or almost daily
( 0)	( 1)	( 2)	( 3)	( 4)

20. Have you or someone else been injured as a result of your drinking?

No	Yes, but not in the last year	Yes, during the last year
( 0)	( 1)	( 2)

21. Has a relative or friend, or a doctor or other health worker been concerned about your drinking or suggested you cut down?

No	Yes, but not in the last year	Yes, during the last year
( 0)	( 1)	( 2)

22. Today's date:

---

**Thank you for completing this questionnaire.**

**Purpose:** To document an adverse event that threatens the integrity of the CyNCh trial or well-being of a study participant that includes, but not limited to:

- (1) events that impact the patient's treatment or participation in CyNCh
- (2) adverse events that may or may not be related to study drug
- (3) other events that clinical center staff feel should be reported
- (4) when a follow-up report is needed for a previously completed AE form

As defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Adverse event* means any untoward medical occurrence associated with the use of a drug in humans, whether or not considered drug related.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, "reasonable possibility" means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "serious" if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgement, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Life-threatening adverse event or life-threatening suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "life-threatening" if, in the view of either the investigator or sponsor, its occurrence places the patient or subject at immediate risk of death. It does not include an adverse event or suspected adverse reaction that, had it occurred in a more severe form, might have caused death.

**When:** All visits. Use visit code if reporting an event discovered during a regular follow-up visit. Use visit code n if event is discovered between study visits. If more than one event is reported on the same calendar day (ie, same date in item 4 for all events), use visit code for first event, n for second event, n2 for third event, etc. Adverse events that are serious, unexpected and have reasonable possibility of being caused by CyNCh study drug should also be recorded on the Serious Adverse Event/IND Safety Report (SR) form.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form for every visit. The short name (item 19) and the severity grade (item 20) are to be obtained from the NCI's Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). Click on Studies and then CyNCh. Fax the DCC (Fax 410-955-0932; Attention: Pat Belt) a copy of this form if severity grade is 3 or higher within 1 week for further review by Dr. Jeanne Clark, the NASH CRN Safety Officer. For more information, see SOP I sections 6.18 and 6.19.

**Follow-up report:** A follow-up report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patient's condition or in the physician's judgment about the event since the previous report was filed.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report: \_\_\_\_\_

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_  
if report not associated with a visit, fill in "n"

6. Form & revision:  a e 1

7. Study:  CyNCh 8



17. Describe event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

For items 18, 19, and 20, please refer to CTCAE v3.0 available at www.nashcrn.com; click on Studies and then CyNCh.

18. Identify body system (check all that apply)

- a. Auditory/ear: (  )
- b. Allergy/immunologic: (  )
- c. Ocular/visual: (  )
- d. Hepatobiliary/pancreatic: (  )
- e. Infection: (  )
- f. Constitutional symptoms: (  )
- g. Psychiatric: (  )
- h. Cardiovascular: (  )
- i. Dermatologic/skin: (  )
- j. Endocrine/metabolic: (  )
- k. Gastrointestinal/digestive: (  )
- l. Lymphatic/blood: (  )
- m. Musculoskeletal: (  )
- n. Neurologic: (  )
- o. Pulmonary/respiratory: (  )
- p. Renal/genitourinary: (  )
- q. Sexual/reproductive: (  )
- r. Other (specify): (  )

\_\_\_\_\_ specify other body system

- s. None of the above: (  )

19. Short name for event if applicable:

- Not applicable (  )

\_\_\_\_\_  
\_\_\_\_\_

20. Severity grade:

- Not an adverse event (  )
- Grade 1 - Mild (  )
- Grade 2 - Moderate (  )
- Grade 3 - Severe (  )
- Grade 4 - Life threatening or disabling (  )
- Grade 5 - Death (  )

\*Complete and key Death Report (DR) form.

21. Randomization in CyNCh

- a. Has patient been randomized in CyNCh:

(  ) Yes (  ) No

29.

- b. Date randomized in CyNCh:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

22. Is the patient currently receiving the CyNCh study drug:

(  ) Yes (  ) No

23. Patient's history of treatment with CyNCh study drug

- a. How long has patient been on study drug:

\_\_\_\_\_

- b. What daily dose was the patient taking prior to the adverse event:

\_\_\_\_ mg/day

- c. Have there been any treatment interruptions or restarts:

(  ) Yes (  ) No

Include stop/restart dates and reasons:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Is there evidence to suggest a causal relationship between the CyNCh study drug and the adverse event:

- Definitely yes ( 1 )
- Probably yes ( 2 )
- Possibly yes ( 3 )
- Probably no ( 4 )
- Definitely no ( 5 )

25. Is this a serious adverse event:

- Yes ( 1 )
- No ( 2 )

26.

*If Yes, then select all the reasons that apply:*

- a. Severity Grade 4 or 5: ( 1 )
- b. Required inpatient hospitalization or prolonged existing hospitalization: ( 1 )
- c. Persistent or significant incapacity or substantial disruption of ability to conduct normal life functions: ( 1 )
- d. Jeopardized patient and required medical or surgical intervention to prevent a serious event: ( 1 )
- e. Congenital anomaly or birth defect: ( 1 )

26. Is this an unexpected adverse event:

- Yes ( 1 )
- No ( 2 )

28.

27. Reason the adverse event was unexpected:

- Not listed in the cysteamine bitartrate investigator's brochure ( 1 )
- Listed in the cysteamine bitartrate investigator's brochure, but not at the specificity or severity that has been observed ( 2 )
- Listed in the cysteamine bitartrate investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of cysteamine bitartrate ( 3 )

28. Did you select "Yes" for items 24 (definitely, probably, or possibly), 25, and 26:

- Yes ( \* 1 )
- No ( 2 )

*\*If Yes, please also complete a Serious Adverse Event/IND Safety Report (SR) form and follow instructions.*

29. Current status of adverse event (check only one):

- Resolved ( 1 )
- Active ( 2 )
- Unknown ( 3 )

31.

31.

30. Date adverse event resolved:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

31. What action was taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

32. Other comments on event:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**E. Administrative information**

33. Clinical Coordinator PIN: \_\_\_\_\_

34. Clinical Coordinator signature:  
\_\_\_\_\_

35. Study Physician PIN: \_\_\_\_\_

36. Study Physician signature:  
\_\_\_\_\_

37. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

*Key this form and fax the DCC (Attention: Pat Belt) a copy of this form if severity grade is 3 or higher. We are asking for copies of these reports on serious adverse events so that we assure appropriate and timely NIDDK review. The serious adverse event reports will be reviewed by Dr. Jeanne Clark, the Safety Officer.*

BH - Baseline History

Purpose: To collect baseline history information about the patient.

When: Visit s.

Administered by: Clinical Coordinator, reviewed by Study Physician.

Respondent: Patient or patient's parent.

Instructions: Collect information by interview or chart review. If [triangle with c] is checked for an item, use caution. If the physician agrees with the diagnosis, the patient is ineligible for CyNCh. If [circle with X] is checked for an item, the patient is ineligible and cannot enroll in CyNCh. The form should not be keyed to the data system, but the form should be retained; set aside with forms for other patients who started screening, but were found to be ineligible.

A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (date this form is initiated):
\_\_\_\_\_
day mon year

5. Visit code: \_s\_ \_\_\_\_\_

6. Form & revision: \_b\_ \_h\_ \_l\_

7. Study: CyNCh \_8\_

B. NAFLD history

8. Does the patient have a liver biopsy done that you want evaluated for the CyNCh trial (complete the Liver Biopsy Histology Findings (HF) and Liver Biopsy Materials Documentation (SD) forms for this biopsy):
(Yes\*) (No)
[11.]

\*Randomization must be done within 120 days of liver biopsy.

9. Date of liver biopsy:
\_\_\_\_\_
day mon year

10. Last day to randomize based on liver biopsy date (120 days after biopsy; use date calculator 2 on the NASH CRN home page):
\_\_\_\_\_
day mon year
[12.]

11. Will the patient have a biopsy during screening:
(Yes\*) (No)
[Elig] [2]

\*Blood draw for banking should be done prior to the biopsy or at least 4 days after the biopsy.

C. Menstrual history and use of effective birth control

12. Is the patient female:
(Yes) (No)
[19.] [2]

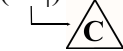
13. Menarche history
a. Has menarche occurred:
(Yes) (No)
[19.] [2]

b. What was the patient's age at menarche:
\_\_\_\_\_
age in years


14. Characterize the menstrual history in the past year (check only one):
Regular periods (1)
Irregular periods (2)
Rare periods (3)
No periods (4)


15. Is the patient of childbearing potential:
(Yes) (No)
[19.] [2]

16. Is the patient currently pregnant:
(Yes) (No)
[Elig] [2]


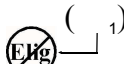
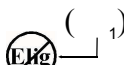
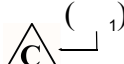
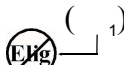
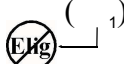
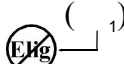
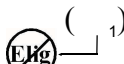
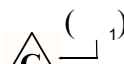
17. Is the patient currently breastfeeding:  
 (Yes  \*) (No  2)  


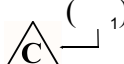
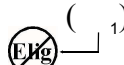
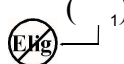

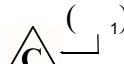
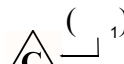
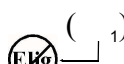

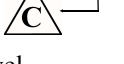
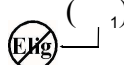
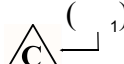
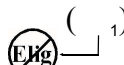

*\*Caution: Patient cannot be breastfeeding at time of randomization.*

18. If sexually active, is the patient willing to use two effective birth control methods during CyNCh:  
 (Yes  1) (No  2)  


**D. Medical history** ( means Caution; condition is exclusionary if study physician agrees with diagnosis)

19. Has the patient ever been diagnosed with or treated for any of the following (check all that apply; source of information can be interview and/or chart review)

- a. Diabetes type 1: (  \*)
- b. Diabetes type 2: (  \*)  
*\*If HbA1c is > 9%, patient is ineligible.*
- c. Hepatitis B:  (  1)
- d. Hepatitis C:  (  1)
- e. Autoimmune hepatitis:  (  1)
- f. Autoimmune cholestatic liver disorder (PBC or PSC):  (  1)
- g. Wilson's disease:  (  1)
- h. Alpha-1-antitrypsin (A1AT) deficiency:  (  1)
- i. Hemochromatosis or iron overload:  (  1)
- j. Drug induced liver disease:  (  1)
- k. Ascites:  (  1)

- l. Gilbert's syndrome: (  1)
- m. Esophageal or gastric varices on endoscopy:  (  1)
- n. Bleeding from varices:  (  1)
- o. Gastrointestinal ulcers or other gastrointestinal bleeding:  (  1)
- p. Biliary diversion:  (  1)
- q. Metabolic acidosis:  (  1)
- r. Edema:  (  1)
- s. Hepatic encephalopathy:  (  1)
- t. Any other evidence of chronic liver disease:  (  1)
- u. Currently active inflammatory bowel disease:  (  1)
- v. Short bowel syndrome:  (  1)
- w. Small intestine resection:  (  1)
- x. Renal dysfunction with creatinine clearance < 90 mL/min/m<sup>2</sup>:  (  1)
- y. Hemophilia (bleeding disorder):  (  1)
- z. Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: (  1)

- aa. Endocrine disease  
(*hormonal abnormality*):  ( 1 )
- ab. Asthma:  ( 1 )
- ac. Hepatocellular carcinoma:  ( 1 )
- ad. Other malignancy (*cancer*):  ( 1 )
- ae. Active malignant disease requiring  
chemotherapy or radiation within the  
past year:  ( 1 )
- af. Human immunodeficiency virus  
(HIV):  ( 1 )
- ag. Peripheral neuropathy:  ( 1 )
- ah. Active seizure disorder or epilepsy:  ( 1 )
- ai. Drug allergies:  ( 1 )
- aj. Hypothyroidism:  ( 1 )
- ak. Hypertension:  ( 1 )
- al. Cerebrovascular disease:  ( 1 )
- am. Hyperlipidemia (*high cholesterol,  
high triglycerides*):  ( 1 )
- an. Pancreatitis:  ( 1 )
- ao. Cholelithiasis:  ( 1 )
- ap. Coronary artery disease:  ( 1 )
- aq. Congestive heart failure:  ( 1 )
- ar. Myocardial infarction:  ( 1 )
- as. Unstable arrhythmias:  ( 1 )
- at. Elevated uric acid such as gout:  ( 1 )
- au. Kidney disease:  ( 1 )
- av. Polycystic ovary syndrome:  ( 1 )
- aw. Sleep apnea:  ( 1 )

- ax. Dermatologic disorders:  ( 1 )
  - ay. Myopathy:  ( 1 )
  - az. Myositis:  ( 1 )
  - ba. Major depression:  ( 1 )
  - bb. Schizophrenia:  ( 1 )
  - bc. Bipolar disorder:  ( 1 )
  - bd. Obsessive compulsive disorder:  ( 1 )
  - be. Severe anxiety or personality  
disorder:  ( 1 )
  - bf. Substance abuse:  ( 1 )
  - bg. None of the above:  ( 1 )
20. Has the patient ever had bariatric surgery  
for any of the following (*check all that apply*)
- a. Stapling or banding of the stomach:  ( 1 )
  - b. Jejunioileal (*or other intestinal*)  
bypass:  ( 1 )
  - c. Biliopancreatic diversion:  ( 1 )
  - d. Other bariatric surgery (*specify*):  ( 1 )
- \_\_\_\_\_
- e. None of the above:  ( 1 )
21. Is the patient currently undergoing  
evaluation for bariatric surgery:
- ( Yes ) ( No )  
 ( 1 )  ( 2 )
22. Has the patient received total parenteral  
nutrition (TPN) in the past year:
- ( Yes ) ( No )  
 ( 1 )  ( 2 )

**23. Organ, limb, or bone marrow transplant**

**a.** Has the patient ever received a liver transplant:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 **Elig**

**b.** Has the patient ever received any other organ, limb, or bone marrow transplant:

( Yes ) ( No )  
 ( 1 ) ( 2 )

**E. Drugs historically associated with NAFLD**

**24.** Has the patient used any tetracyclines, salicylates, valproic acid or other known hepatotoxins in the past year (check all that apply)

- a.** Amiodarone (Pacerone): ( 1 )
  - b.** Demeclocycline (Declomycin): ( 1 )
  - c.** Divalproex (Depakote): ( 1 )
  - d.** Doxycycline (Monodox): ( 1 )
  - e.** Isonicotinylhydrazine (INH, Isoniazid, Tubizid): ( 1 )
  - f.** Isotretinoin (Accutane, Amnesteem, Clarvis, or Sotret): ( 1 )
  - g.** Methotrexate (Rheumatrex): ( 1 )
  - h.** Minocycline (Dynacin, Minocin): ( 1 )
  - i.** Oxytetracycline (Terramycin): ( 1 )
  - j.** Tetracycline (Achromycin): ( 1 )
  - k.** Valproate sodium (Depacon): ( 1 )
  - l.** Valproic acid (Depakene): ( 1 )
  - m.** Other known hepatotoxin (specify): ( 1 )
- 
- n.** None of the above: ( 1 )

**25.** Were any of the items in 24a-m checked:

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 **C**

*\*Caution: Use of any of these drugs for more than 2 consecutive weeks in the past year or in the 90 days prior to liver biopsy is exclusionary.*

**26.** Has the patient taken any systemic glucocorticoids in the past year (check all that apply)


- a.** Betamethasone sodium (Celestone): ( 1 )
  - b.** Cortisol: ( 1 )
  - c.** Cortisone: ( 1 )
  - d.** Dexamethasone (Decadron): ( 1 )
  - e.** Hydrocortisone (Hydrocortone): ( 1 )
  - f.** Methylprednisolone (Solu-Medrol): ( 1 )
  - g.** Prednisolone (Prelone): ( 1 )
  - h.** Prednisone: ( 1 )
  - i.** Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): ( 1 )
  - j.** Other, (specify): ( 1 )
- 
- k.** Other, (specify): ( 1 )
- 
- l.** None of the above: ( 1 )

**27.** Were any of the items 26a-k checked:


( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 **C**

*\*Caution: Use of systemic glucocorticoids for more than 2 consecutive weeks in the past year is exclusionary.*


- 28.** Has the patient taken any anabolic steroids or tamoxifen in the past year (check all that apply)
- a. Boldenone undecylenate (Equipose): (  )
  - b. Fluoxymesterone (Android-F, Halotestin): (  )
  - c. Methandrostenolone (Dianabol): (  )
  - d. Methyltestosterone (Android): (  )
  - e. Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
  - f. Oxandrolone (Oxandrin): (  )
  - g. Oxymetholone (Anadrol): (  )
  - h. Stanzolol (Winstrol): (  )
  - i. Tamoxifen (Nolvadex): (  )
  - j. Testosterone (Depo-Testosterone): (  )
  - k. Other, (specify): (  )  
\_\_\_\_\_
  - l. Other, (specify): (  )  
\_\_\_\_\_
  - m. None of the above: (  )

- 29.** Were any of the items 28a-l checked:
- Yes (  )      No (  )  


*\*Caution: Use of anabolic steroids or tamoxifen for more than 2 consecutive weeks in the past year is exclusionary.*

- 30.** Does the patient have a known intolerance to cysteamine bitartrate:
- Yes (  )      No (  )  


**F. Use of antidiabetic drugs**

- 31.** Has the patient used any antidiabetic medications in the past 6 months:
- Yes (  )      No (  )  
**32.** 

*(If yes, check all that apply)*

- a. Acarbose (Precose): (  )
- b. Acetohexamide (Dymelor): (  )
- c. Chlorpropamide (Diabinese): (  )
- d. Exenatide (Byetta, Bydureon): (  )
- e. Glimepiride (Amaryl): (  )
- f. Glipizide (Glucotrol, Glucator XL): (  )
- g. Glyburide (Micronase, DiaBeta, Glynase): (  )
- h. Insulin: (  )
- i. Metformin (Glucophage, Glucophage XR): (  )
- j. Miglitol (Glycet): (  )
- k. Nateglinide (Starlix): (  )
- l. Pioglitazone (Actos): (  )
- m. Repaglinide (Prandin): (  )
- n. Rosiglitazone (Avandia): (  )
- o. Tolazamide (Tolinase): (  )
- p. Tolbutamide (Orinase): (  )
- q. Other, (specify): (  )  
\_\_\_\_\_

**G. Use of supplements, vitamins, and other drugs**

**32.** Has the patient taken any of the following supplements/drugs in the past 6 months:

( Yes )      ( No )  
 (    1 )      (    2 )  
**34.**

*(If yes, check all that apply)*

- a. Betaine (Cystadone):  ( 1 )
- b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler):  ( 1 )
- c. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol):  ( 1 )
- d. S-Adenylmethionine (SAM-e):  ( 1 )
- e. Milk thistle:  ( 1 )
- f. Probiotics:  ( 1 )
- g. Gemfibrozil (Gen-Fibro, Lopid):  ( 1 )
- h. Vitamin E:  ( 1 )
- i. Other (*specify*):  ( 1 )

\_\_\_\_\_ specify

**33.** Were any of the medications/supplements checked in items 32a-i initiated after the screening liver biopsy being used for CyNCh:

( Yes )      ( No )  
 (    1 )      (    2 )  
 **Eng**

**34.** Has the patient taken any vitamins in the past 6 months:

( Yes )      ( No )  
 (    1 )      (    2 )  
**35.**

*(If yes, check all that apply)*

- a. Vitamin A:  ( 1 )
- b. Vitamin B (any type):  ( 1 )
- c. Vitamin C:  ( 1 )
- d. Vitamin D:  ( 1 )
- e. Vitamin E:  ( 1 )
- f. Multivitamin:  ( 1 )
- g. Other (*specify*):  ( 1 )

\_\_\_\_\_

**H. Use of statins, fibrates, and antiobesity drugs**

**35.** Has the patient taken any lipid lowering medications in the past 6 months:

( Yes )      ( No )  
 (    1 )      (    2 )  
**36.**

*(If yes, check all that apply)*

- a. Atorvastatin (Lipitor):  ( 1 )
- b. Colestipol hydrochloride (Colestid):  ( 1 )
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate):  ( 1 )
- d. Fenofibrate (Tricor):  ( 1 )
- e. Fluvastatin sodium (Lescol):  ( 1 )
- f. Lovastatin (Mevacor):  ( 1 )
- g. Nicotinic acid (Niaspan):  ( 1 )
- h. Pravastatin sodium (Pravachol):  ( 1 )
- i. Rosuvastatin (Crestor):  ( 1 )
- j. Simvastatin (Zocor):  ( 1 )
- k. Other (*specify*):  ( 1 )

\_\_\_\_\_

**36.** Has the patient taken any antiobesity medications in the past 6 months:

( Yes )                      ( No )  
   ( 1 )                            ( 2 )

**37.**

*(If yes, check all that apply)*

- a. Dexfenfluramine hydrochloride (Redux): ( 1 )
  - b. Fenfluramine hydrochloride (Pondimin): ( 1 )
  - c. Methamphetamine hydrochloride (Desoxyn, Gradumet): ( 1 )
  - d. Orlistat prescription (Xenical): ( 1 )
  - e. Orlistat (over-the-counter Alli): ( 1 )
  - f. Phendimetrazine tartrate (Adipost, Bontril): ( 1 )
  - g. Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine): ( 1 )
  - h. Other, *(specify)*: ( 1 )
- 
- i. Other, *(specify)*: ( 1 )
- 

**38.** Has the patient taken any histamine H2 receptor antagonists or other gastrointestinal medications in the past 6 months:

( Yes )                      ( No )  
   ( 1 )                            ( 2 )

**39.**

*(If yes, check all that apply)*

- a. Cimetidine (Tagamet): ( 1 )
  - b. Esomeprazole magnesium (Nexium): ( 1 )
  - c. Famotidine (Pepcid): ( 1 )
  - d. Lansoprazole (Prevacid): ( 1 )
  - e. Nizatidine (Axid): ( 1 )
  - f. Omeprazole (Prilosec): ( 1 )
  - g. Ranitidine (Zantac): ( 1 )
  - h. Ranitidine bismuth citrate (Tritec): ( 1 )
  - i. Antacids, *(specify)*: ( 1 )
- 
- j. Other, *(specify)*: ( 1 )
- 
- k. Other, *(specify)*: ( 1 )
- 

**I. Use of other medications and supplements**

**37.** Has the patient taken any pain relieving, non-steroidal anti-inflammatory, or aspirin containing medications in the past 6 months:

( Yes )                      ( No )  
   ( 1 )                            ( 2 )

**38.**

*(If yes, check all that apply)*

- a. Acetaminophen (Tylenol): ( 1 )
  - b. Aspirin - 325 mg: ( 1 )
  - c. Ibuprofen (Advil, Motrin): ( 1 )
  - d. Naproxen (Aleve, Naprosyn): ( 1 )
  - e. Other, *(specify)*: ( 1 )
- 
- f. Other, *(specify)*: ( 1 )
-



39. Has the patient taken any cardiovascular/antihypertensive medications in the past 6 months:

( Yes )      ( No )  
 (    1 )      (    2 )

**40.**

*(If yes, check all that apply)*

- a. Amlodipine besylate (Norvasc): (    1 )
  - b. Aspirin - 81 mg: (    1 )
  - c. Atenolol (Tenormin): (    1 )
  - d. Benazepril (Lotensin): (    1 )
  - e. Captopril (Capoten): (    1 )
  - f. Clonidine (Catapres): (    1 )
  - g. Digoxin (Lanoxin): (    1 )
  - h. Diltiazem (Cardizem): (    1 )
  - i. Doxazosin (Cardura): (    1 )
  - j. Enalapril (Vasotec): (    1 )
  - k. Felodipine (Plendil): (    1 )
  - l. Furosemide (Lasix): (    1 )
  - m. Hydrochlorothiazide (Esidrix, HydroDIURIL): (    1 )
  - n. Hydrochlorothiazide + triamterene (Dyazide): (    1 )
  - o. Lisinopril (Prinivil, Zestril): (    1 )
  - p. Losartan potassium (Cozaar): (    1 )
  - q. Losartan potassium with hydrochlorothiazide (Hyzaar): (    1 )
  - r. Metoprolol (Lopressor): (    1 )
  - s. Nifedipine (Adalat, Procardia): (    1 )
  - t. Perhexiline maleate: (    1 )
  - u. Propranolol (Inderal): (    1 )
  - v. Quinapril (Accupril): (    1 )
  - w. Terazosin (Hytrin): (    1 )
  - x. Timolol maleate (Blocadren): (    1 )
  - y. Valsartan (Diovan): (    1 )
  - z. Verapamil (Calan): (    1 )
  - aa. Other, *(specify)*: (    1 )
- 
- ab. Other, *(specify)*: (    1 )
- 

40. Has the patient taken any allergy or asthma medications in the past 6 months that have not already been reported on this form:

( Yes )      ( No )  
 (    1 )      (    2 )

**41.**

*(If yes, check all that apply)*

- a. Albuterol: (    1 )
  - b. Beclomethasone dipropionate (Beclovent, Vanceril): (    1 )
  - c. Budesonide (Pulmicort, Rhinocort): (    1 )
  - d. Fluticasone propionate (Flonase, Flovent): (    1 )
  - e. Loratadine (Claritin): (    1 )
  - f. Mometasone furoate (Nasonex): (    1 )
  - g. Triamcinolone acetonide (Azmecort, Nasacort): (    1 )
  - h. Other, *(specify)*: (    1 )
- 
- i. Other, *(specify)*: (    1 )
- 

41. Has the patient taken any antipsychotic or antidepressant medications in the past 6 months:

( Yes )      ( No )  
 (    1 )      (    2 )

**42.**

*(If yes, check all that apply)*

- a. Aripipazole (Abilify): (    1 )
  - b. Bupropion (Wellbutrin): (    1 )
  - c. Clomipramine (Anafranil): (    1 )
  - d. Escitalopram (Lexapro): (    1 )
  - e. Fluoxetine (Prozac): (    1 )
  - f. Fluvoxamine (Luvox): (    1 )
  - g. Lithium (Eskalith, Lithobid): (    1 )
  - h. Quetiapine (Seroquel): (    1 )
  - i. Risperidone (Risperdal): (    1 )
  - j. Sertraline (Zoloft): (    1 )
  - k. Other (specify): (    1 )
-

42. Has the patient taken any supplements in the past 6 months that have not already been reported on this form:

Yes ( 1 )      No ( 2 )  
 43.

*(If yes, check all that apply)*

- a. Alpha-lipoic acid: ( 1 )
- b. Beta-carotene: ( 1 )
- c. Calcium (any form): ( 1 )
- d. Carnitine (any form): ( 1 )
- e. Chondroitin (any form): ( 1 )
- f. Cod liver oil: ( 1 )
- g. Coenzyme Q: ( 1 )
- h. Dichloroacetate: ( 1 )
- i. Echinacea: ( 1 )
- j. Fish oil (any form): ( 1 )
- k. Flax seed oil: ( 1 )
- l. Garlic: ( 1 )
- m. Ginkgo biloba: ( 1 )
- n. Glucosamine (any form): ( 1 )
- o. Lecithin: ( 1 )
- p. Magnesium: ( 1 )
- q. N-acetyl-cysteine: ( 1 )
- r. Potassium (any form): ( 1 )
- s. Saw palmetto: ( 1 )
- t. Selenium: ( 1 )
- u. St. John's Wort: ( 1 )
- v. Taurine: ( 1 )
- w. Zinc picolinate: ( 1 )
- x. Other, *(specify)*: ( 1 )

\_\_\_\_\_

y. Other, *(specify)*: ( 1 )

\_\_\_\_\_

43. Has patient taken any of the following medications in the past 6 months:

Yes ( 1 )      No ( 2 )  
 44.

*(If yes, check all that apply)*

- a. Isotretinoin (Accutane): ( 1 )
- b. Levonorgestrel (Norplant): ( 1 )
- c. Levothyroxine (Levoxyl, Synthroid): ( 1 )
- d. Liothyronine (Cytomel): ( 1 )
- e. Oral contraceptives: ( 1 )
- f. Penicillamine (Cuprimine, Depen): ( 1 )
- g. Trientine hydrochloride (Syprine): ( 1 )
- h. Other, *(specify)*: ( 1 )

\_\_\_\_\_

i. Other, *(specify)*: ( 1 )

\_\_\_\_\_

j. Other, *(specify)*: ( 1 )

\_\_\_\_\_

k. Other, *(specify)*: ( 1 )

\_\_\_\_\_

l. Other, *(specify)*: ( 1 )

\_\_\_\_\_

**J. Administrative information**

44. Study Physician PIN: \_\_\_\_\_

45. Study Physician signature: \_\_\_\_\_

46. Clinical Coordinator PIN: \_\_\_\_\_

47. Clinical Coordinator signature: \_\_\_\_\_

48. Date form reviewed: \_\_\_\_\_

\_\_\_\_\_ day      \_\_\_\_\_ mon      \_\_\_\_\_ year



**9. Date and time of blood draw**

**a. Date:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

**b. Time:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**10. Number of heparin (green-top) tubes:** \_\_\_\_\_

**11. Affix matching heparin tube MACO label (only key NASH ID):**

CyNCh Form BP, BP Plasma. Pt: 9999, xyz Visit vvv Date:
---

**12. Number of SST serum separator (red-gray top) tubes:** \_\_\_\_\_

**13. Attach duplicate SST serum separator tube labels (only key NASH ID):**

CyNCh Form BP, Serum 1 Pt: 9999, xyz Visit: vvv BP Date:
--

CyNCh Form BP, Serum 2 Pt: 9999, xyz Visit: vvv BP Date:
--

**14. Phlebotomist:**  
 \_\_\_\_\_  
 print name

**C. Aliquots for plasma and serum**

*Pipette 0.5 mL of plasma into each of up to ten 2.0 mL pre-labeled cryovials and pipette 0.5 mL of serum into each of up to 20 2.0 mL pre-labeled cryovials.*

**15. Date and time of separation into plasma and serum aliquots**

**a. Date:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

**b. Time of plasma separation:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**c. Time of serum separation:**

\_\_\_\_ : \_\_\_\_ ( 1 ) ( 2 )  
 hour minute am pm

**16. Number of aliquots for plasma:** \_\_\_\_\_

**17. Number of aliquots for serum:** \_\_\_\_\_

**18. Attach duplicate cryovial labels (use aliquot #00 labels which are located in the first row of labels in the set):**

Serum aliquot #00 label
----------------------------

Plasma aliquot #00 label
-----------------------------

**19. Technician:**  
 \_\_\_\_\_  
 print name



**CG - Genetic Consent and Blood Collection Documentation**

**Purpose:** To document options selected for use of blood samples for genetic research and the collection of whole blood for DNA extraction and banking at the NIDDK Genetics Repository at Rutgers University.

**When:** Screening visit s or as needed during follow-up due to a low yield (less than 50 µg) of DNA (during follow-up, use the visit code of the follow-up visit that is open).

**By whom:** Study Physician, Clinical Coordinator and laboratory personnel responsible for collection of blood.

**Instructions:** Complete this form based on the consent documents signed by the patient. If the patient changes his/her mind regarding consent for use of samples after the initial form is completed, complete a new CG form. If the patient consents, (1) Apply MACO labels specific for the patient and visit to the EDTA vacutainer tubes; these labels are generated by the clinical center upon registration (screening labels). Affix duplicate tube label in item 18. (2) Fill two 10 mL EDTA vacutainer tubes with whole blood (see SOP I, section 6). (3) Pack the whole blood tubes in the specimen shippers supplied by the NIDDK Genetics Repository. Use the preprinted Federal Express shipping label, marked for Priority Overnight Delivery, to ship whole blood at ambient room temperature to the NIDDK Genetics Repository Monday-Friday on the same day it is collected.

**A. Center, patient and visit identification**

1. Center ID:                    \_\_\_\_\_

2. Patient ID:                    \_\_\_\_\_

3. Patient code:                    \_\_\_\_\_

4. Date form completed:                    \_\_\_\_\_

\_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_  
day
mon
year

5. Visit code:                    \_\_\_\_\_

6. Form & revision:                      c     g     1  

7. Study:                                    CyNCh   8  

**B. Consent for collection, storage, and use of blood samples for current and future genetic research**

8. Has a sufficient yield of DNA (≥100 micrograms) been banked at the NIDDK Genetics Repository for this participant in a previous NASH CRN study:

( Yes )
( No )  
( 1 )
( 2 )  
**10.** \_\_\_\_\_

9. For which study was it collected (check all that apply):

a. Database                                    ( 1 )

b. TONIC                                        ( 1 )

c. Database 2                                 ( 1 )

d. Other, (specify):                         ( 1 )

\_\_\_\_\_ specify

**20.** \_\_\_\_\_

10. Does the patient/guardian assent/consent to genetic research on NAFLD that is currently planned by the study investigators:

( Yes )
( No )  
( 1 )
( 2 )

11. Does the patient/guardian assent/consent to future genetic research on NAFLD by this study or other study investigators:

( Yes )
( No )  
( 1 )
( 2 )

12. Does the patient/guardian assent/consent to future genetic research not related to NAFLD by this study or other study investigators:

( Yes )
( No )  
( 1 )
( 2 )

13. Other information related to consent for genetic research that clinic staff feel needs to be keyed to the study database (e.g., if your genetic consent had other options that are not covered by the 3 categories of use of samples specified above):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. Attach form copy of tube label:

CyNCh Form CG  
Pt: ccc- 9999, xyz  
Gender  
Age, yrs.: XX

19. Phlebotomist:

\_\_\_\_\_ print name

14. In your judgment, has the patient consented to collection of blood for DNA banking (this question is asked in recognition that not all IRBs will have approved consent statements that include language that can be mapped into the questions in items 10 through 12; a response of "No" to this question (item 14) means that blood should NOT be collected for sending to the Genetics Repository and if already collected, should be destroyed by the Genetics Repository):

Yes ( 1 ) No ( 2 )

20. \_\_\_\_\_

**D. Administrative information**

20. Study Physician PIN: \_\_\_\_\_

21. Study Physician signature: \_\_\_\_\_

22. Clinical Coordinator PIN: \_\_\_\_\_

23. Clinical Coordinator signature: \_\_\_\_\_

24. Date form reviewed: \_\_\_\_\_  
day mon year

**C. Specimen for Genetics Repository**

Attach ID labels to two 10 mL EDTA tubes and fill each with blood; invert each tube gently 6 times to mix blood with additives; keep tubes at room temperature until the same day shipment to the NIDDK Genetics Repository.

15. Was blood collected today for the NIDDK Genetics Repository:

Yes ( 1 )

16. \_\_\_\_\_

No, (specify): ( 2 )

\_\_\_\_\_ specify

20. \_\_\_\_\_

16. Date and time of blood draw

a. Date:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

b. Time:

\_\_\_\_\_ hour : \_\_\_\_\_ minute ( 1 ) ( 2 )  
am pm

17. Number of 10 mL EDTA tubes: \_\_\_\_\_





### Central Histology Review

**Purpose:** Record results of the NASH CRN Pathology Committee review of liver biopsy slides archived at the Histology Review Center.  
**When:** Quarterly after the start of patient enrollment or more often as determined by the Pathology Committee.  
**By whom:** Data Coordinating Center staff.  
**Instructions:** Upon review of the liver biopsy slides by the NASH CRN Pathology Committee, the designated Data Coordinating Center staff member should complete the CR form. The CR form will be keyed by the Data Coordinating Center personnel.

**A. Clinic, patient and visit identification**

- \_\_\_ \_\_\_ \_\_\_ 1. Center ID
- \_\_\_ \_\_\_ \_\_\_ 2. Patient ID
- \_\_\_ \_\_\_ \_\_\_ 3. Patient code
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 4. Date of central reading
- \_\_\_ \_\_\_ \_\_\_ 5. Visit code
- c  r  2   6. Form and revision
- \_\_\_ 7. Study: **6**=Database 2; **7**=FLINT; **8**=CyNCh
- \_\_\_ \_\_\_ / \_\_\_ \_\_\_ \_\_\_ / \_\_\_ \_\_\_ 8. Date of biopsy

**B. Slide sequence number**

- \_\_\_ \_\_\_ 9. Sequence number for
  - ... a. H & E stained slide
  - \_\_\_ \_\_\_ ... b. Masson's trichrome stained slide
  - \_\_\_ \_\_\_ ... c. Iron stained slide

**C. Adequacy of biopsy**

- \_\_\_ \_\_\_ 10. Biopsy length (mm)
- \_\_\_ 11. Tissue adequate: **0**=No → Request original slides from submitting clinic; **1**=Yes
- \_\_\_\_\_ 12. Followup with clinic (*Specify*):

**D. Histology**

**H & E stain**

13. Steatosis (assume macro, e.g., large and small droplet)

- \_\_\_ \_\_\_ ... a. Grade: **0**<5%; **1**=5-33%; **2**=34-66%; **3**>66%
- \_\_\_ \_\_\_ ... b. Location: **0**=Zone 3 (*central*); **1**=Zone 1 (*periportal*); **2**=Azonal; **3**=Panacinar
- \_\_\_ \_\_\_ ... c. Type of macrovesicular steatosis: **0**=Predominantly large droplet; **1**=Mixed large and small droplet; **2**=Predominantly small droplet
- \_\_\_ \_\_\_ ... d. Microvesicular steatosis, contiguous patches: **0**=Absent; **1**=Present

## 14. Inflammation

- ... a. Amount of lobular inflammation: combines mononuclear, fat granulomas, and pmn foci:  
**0=0; 1=<2 under 20x mag; 2=2-4 under 20 mag; 3=>4 under 20 mag**
- ... b. Microgranulomas seen: **0=No; 1=Yes**
- ... c. Large lipogranulomas seen: **0=No; 1=Yes**
- ... d. Amount of portal, chronic inflammation: **0=None; 1=Mild; 2=More than mild**

## 15. Liver cell injury

- ... a. Ballooning: **0=None → GOTO Item 15d; 1=Few; 2=Many**
- ... b. Severe ballooning present: **0=No; 1=Yes**
- ... c. Classical balloon cells present: **0=No; 1=Yes**
- ... d. Acidophil bodies: **0=Rare/absent; 1=Many**
- ... e. Pigmented macrophages (*Kupffer cells*): **0=Rare/absent; 1=Many**
- ... f. Megamitochondria: **0=Rare/absent; 1=Many**

16. Mallory-Denk bodies: **0=Rare/absent; 1=Many**

17. Glycogen nuclei: **0=Rare/absent; 1=Present in patches**

18. Glycogenosis of hepatocytes: **0=Not present; 1=Focal, involving less than 50% of the hepatocytes; 2=Diffuse, involving greater than or equal to 50% of the hepatocytes**

## 19. Masson's trichrome stain

- ... a. Fibrosis stage: **0=None → GOTO Item 20; 1a=Mild, zone 3 perisinusoidal (requires trichrome); 1b=Moderate, zone 3, perisinusoidal (does not require trichrome); 1c=Portal/periportal only; 2=Zone 3 and periportal, any combination; 3=Bridging; 4=Cirrhosis**
- ... b. Perisinusoidal fibrosis grade: **0=No perisinusoidal fibrosis present; 1=Perisinusoidal fibrosis present that requires a Masson stain to identify; 2=Perisinusoidal fibrosis present that is visible on the H&E stain**
- ... c. Predominant location of fibrosis: **0=More predominance around or between portal areas; 1=No portal or central predominance; 2=More predominance around/between central veins**

## 20. Iron stain

- ... a. Hepatocellular iron grade: **0=Absent or barely discernible, 40x → GOTO item 20c; 1=Barely discernible granules, 20x; 2=Discrete granules resolved, 10x; 3=Discrete granules resolved, 4x; 4=Masses visible by naked eye**
- ... b. Hepatocellular iron distribution: **0=Periportal; 1=Periportal and midzonal; 2=Panacinar; 3=Zone 3 or azonal**
- ... c. Nonhepatocellular iron grade: **0=None → GOTO item 21; 1=Mild; 2=More than mild**
- ... d. Nonhepatocellular iron distribution: **0=Large vessel endothelium only; 1=Portal/fibrosis bands only, but more than just in large vessel endothelium; 2=Intraparenchymal only; 3=Both portal and intraparenchymal**

21. Is this steatohepatitis? **99=Not NAFLD; 0=NAFLD, not NASH; 1a=Suspicious/borderline/indeterminate: Zone 3 pattern; 1b=Suspicious/borderline/indeterminate: Zone 1, periportal pattern; 2=Yes, definite**

22. Is cirrhosis present? **0=No → GOTO item 25; 1=Yes**

23. Is this cryptogenic cirrhosis: **0=No → GOTO item 25; 1=Yes**

24. Features suggestive of steatohepatitis etiology for cryptogenic cirrhosis:

- ... a. Mallory-Denk bodies (*rule out cholate stasis*): **0=Absent; 1=Present**
- ... b. Perisinusoidal fibrosis away from septa: **0=Absent; 1=Present**
- ... c. Hepatocyte ballooning: **0=Absent; 1=Present**
- ... d. Megamitochondria: **0=Absent; 1=Present**
- ... e. Other notable findings: **0=Absent; 1=Present; Specify: \_\_\_\_\_**

25. Other comments: \_\_\_\_\_

**Purpose:** To document dose of CyNCh trial study drug requested for dispensing.

**When:** Visits f04, f12, f24, and f36. Use visit code “n” if a change in the dosage of study drug occurs at a time other than a study visit or to dispense drug outside of a study visit.

**Administered by:** Study Physician or Clinical Coordinator.

**Instructions:** This form will be used to document the dosage the patient is currently taking and the dosage prescribed at this visit. CyNCh study drug will be taken orally in the morning and in the evening 30 minutes prior to meals. Children should be instructed to take 75 mg capsules according to their weight group at randomization:

≤65 kg at baseline	4 capsules twice daily	600 mg/day
>65-80 kg at baseline	5 capsules twice daily	750 mg/day
>80 kg at baseline	6 capsules twice daily	900 mg/day

**IMPORTANT:**

This form **must be entered into the data system** to obtain drug bottle number(s) for dispensing to the participant. Study drug will be dispensed in bottles containing 150 capsules of 75 mg strength.

Unless the child did not tolerate the prescribed dosage, study drug should be dispensed as specified below:

Weight group	Visit	Number of Bottles/capsules		Comments
≤65 kg at baseline	f04	4	600	8 week supply + 2.7 weeks
	f12	6	900	12 week supply + 4.1 weeks
	f24	6	900	12 week supply + 4.1 weeks
	f36	7	1,050	16 week supply + 2.8 weeks
>65 kg - ≤80 kg at baseline	f04	5	750	8 week supply + 2.7 weeks
	f12	7	1,050	12 week supply + 3 weeks
	f24	7	1,050	12 week supply + 3 weeks
	f36	9	1,350	16 week supply + 3.3 weeks
>80 kg at baseline	f04	6	900	8 week supply + 2.7 weeks
	f12	8	1,200	12 week supply + 2.3 weeks
	f24	8	1,200	12 week supply + 2.3 weeks
	f36	11	1,650	16 week supply + 3.6 weeks

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

5. Visit code: \_\_\_\_\_

6. Form & revision:  d   d   1

7. Study: CyNCh  8

**B. Study drug dispensing**

8. Which weight group was the patient assigned to at randomization (*check only one*):
- ≤65 kg at baseline (600 mg/day) ( 1 )
  - >65 kg - ≤80 kg at baseline (750 mg/day) ( 2 )
  - >80 kg at baseline (900 mg/day) ( 3 )

9. Is the patient currently taking the CyNCh study drug at the dose prescribed according to their weight group at randomization

Yes                  No  
( 1 )                  ( 2 )

**11.** ←

10. How many capsules per day has the patient been taking since the last study visit:

\_\_\_\_\_ (00-11)

*If the patient is not taking study drug, enter "00" and skip to 13.*

11. How is the patient taking the CyNCh study drug (*check only one*):

- Swallowing the capsules ( 1 )
- Sprinkling the capsule contents into food ( 2 )
- Swallowing some and sprinkling some ( 3 )
- Other, (*specify*): ( 4 )

\_\_\_\_\_

12. Was the dose tolerated by the patient (*check only one*):

- Yes ( 1 )
- No, patient experienced side effects and will not take the dose prescribed at randomization (\* 2 )
- No, patient experienced side effects and the medication was stopped (\* 3 )

*\* If patient experienced severe and unanticipated side effects, complete the SR form.*

13. The prescribed dose of study drug at this visit will be:

- a. Number of capsules to be taken in the morning: \_\_\_\_\_ (0-6)
- b. Number of capsules to be taken in the evening: \_\_\_\_\_ (0-6)

14. Number of bottle(s) of study drug required:

\_\_\_\_\_ (00-11)

**C. Administrative information**

15. Study Physician PIN: \_\_\_\_\_

16. Study Physician signature: \_\_\_\_\_

17. Clinical Coordinator PIN: \_\_\_\_\_

18. Clinical Coordinator signature: \_\_\_\_\_

19. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day                  mon                  year

**Purpose:** To record the report of a patient's death.

**When:** As soon as clinic is notified of a patient's death.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form whenever the clinical center is informed of a patient's death. Fax a copy of the Death Report (DR) form to the DCC at (410) 955-0932; Attention: Pat Belt. Also, complete an Adverse Event (AE) form and follow the instructions to report a patient's death in CyNCh.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form is initiated (*date of notice*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                     n   \_\_\_\_\_

6. Form & revision:             d     r     1  

7. Study:                               CyNCh   8  

### B. Death information

8. Date of death:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Source of death report (*check all that apply*):

a. Patient's family: (  )

b. Friend: (  )

c. Health care provider or NASH CRN staff: (  )

d. Newspaper: (  )

e. Funeral parlor/home: (  )

f. Medical record: (  )

g. Medical examiner: (  )

h. Coroner: (  )

i. Other (*specify*): (  )

\_\_\_\_\_  
 other source

\_\_\_\_\_  
 other source

10. Place of death:

\_\_\_\_\_  
 city/state/country

\_\_\_\_\_  
 city/state/country

### 11. Cause of death

(*Study Physician: use whatever knowledge you have and your best medical judgment to best characterize the cause of death; check only one*):

Heart disease (  )

Stroke (  )

Liver disease (  )

Malignancy (  )

Other (*specify*): (  )

\_\_\_\_\_  
 specify

\_\_\_\_\_  
 specify

Unknown (  )

### C. Administrative information

12. Study Physician PIN: \_\_\_\_\_

13. Study Physician signature: \_\_\_\_\_

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature: \_\_\_\_\_

16. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

**Purpose:** To collect follow-up medical history information about the patient.

**When:** Visits f04, f12, f24, f36, f52 and f76.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Respondent:** Patient or patient's parent or guardian.

**Instructions:** Collect information by interview and chart review.

### A. Center, visit, and patient identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   f     h     1  

7. Study: CyNCh   8  

### B. Interval identification

8. Date of last Follow-up Medical History form (*if this is visit f04, then date of s*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. Visit code of last Follow-up Medical History form (*if this is visit f04, then s*):

\_\_\_\_\_

10. Has the participant had a liver biopsy since the last visit:

Yes ( \* 1 )      No ( 2 )

*\* Complete the Liver Biopsy Materials Documentation (SD) form*

### C. Use of effective birth control

11. Is the patient female:

Yes ( 1 )      No ( 2 )

14.

12. Has menarche occurred:

Yes ( 1 )      No ( 2 )

14.

13. If sexually active, is the patient using two effective birth control methods:

Yes ( 1 )

No ( \* 2 )

*\* Remind patient to use two forms of birth control.*

Not sexually active ( 3 )

### D. Alcohol consumption (AUDIT-C) since the last visit

14. Since the last visit, how often have you had a drink containing alcohol:

Never ( 0 )

17.

Monthly or less ( 1 )

Two to four times a month ( 2 )

Two to three times a week ( 3 )

Four or more times a week ( 4 )

15. Since the last visit, how many drinks containing alcohol have you had on a typical day when you are drinking:

1 or 2 ( 0 )

3 or 4 ( 1 )

5 or 6 ( 2 )

7 to 9 ( 3 )

10 or more ( 4 )

16. Since the last visit, how often have you had six or more drinks on one occasion:

Never ( 0 )

Less than monthly ( 1 )

Monthly ( 2 )

Weekly ( 3 )

Daily or almost daily ( 4 )

**E. Recent medical history**

17. Has the patient been diagnosed with any of the following since the last visit (*check all that apply; source of information can be interview and/or chart review*)

- |   |                              |  |                              |
|---|------------------------------|--|------------------------------|
| <b>a.</b> Diabetes type 1:  | ( <input type="checkbox"/> ) | <b>x.</b> Hemophilia ( <i>bleeding disorder</i> ):                                     | ( <input type="checkbox"/> ) |
| <b>b.</b> Diabetes type 2:  | ( <input type="checkbox"/> ) | <b>y.</b> Systemic autoimmune disorder such as rheumatoid arthritis or systemic lupus: | ( <input type="checkbox"/> ) |
| <b>c.</b> Hepatitis B:  | ( <input type="checkbox"/> ) | <b>z.</b> Endocrine disease ( <i>hormonal abnormality</i> ):                           | ( <input type="checkbox"/> ) |
| <b>d.</b> Hepatitis C:  | ( <input type="checkbox"/> ) | <b>aa.</b> Asthma:   | ( <input type="checkbox"/> ) |
| <b>e.</b> Autoimmune hepatitis:                                       | ( <input type="checkbox"/> ) | <b>ab.</b> Hepatocellular carcinoma:   | ( <input type="checkbox"/> ) |
| <b>f.</b> Autoimmune cholestatic liver disorder (PBC or PSC):         | ( <input type="checkbox"/> ) | <b>ac.</b> Other malignancy ( <i>cancer</i> ):   | ( <input type="checkbox"/> ) |
| <b>g.</b> Wilson's disease:   | ( <input type="checkbox"/> ) | <b>ad.</b> Human immunodeficiency virus (HIV):   | ( <input type="checkbox"/> ) |
| <b>h.</b> Alpha-1-antitrypsin (A1AT) deficiency:                      | ( <input type="checkbox"/> ) | <b>ae.</b> Peripheral neuropathy:  | ( <input type="checkbox"/> ) |
| <b>i.</b> Hemochromatosis or iron overload:                           | ( <input type="checkbox"/> ) | <b>af.</b> Active seizure disorder or epilepsy:  | ( <input type="checkbox"/> ) |
| <b>j.</b> Drug induced liver disease:                                 | ( <input type="checkbox"/> ) | <b>ag.</b> Drug allergies:   | ( <input type="checkbox"/> ) |
| <b>k.</b> Ascites:  | ( <input type="checkbox"/> ) | <b>ah.</b> Hypothyroidism:   | ( <input type="checkbox"/> ) |
| <b>l.</b> Gilbert's syndrome:   | ( <input type="checkbox"/> ) | <b>ai.</b> Hypertension:   | ( <input type="checkbox"/> ) |
| <b>m.</b> Esophageal or gastric varices on endoscopy:                 | ( <input type="checkbox"/> ) | <b>aj.</b> Cerebrovascular disease:  | ( <input type="checkbox"/> ) |
| <b>n.</b> Bleeding from varices:                                      | ( <input type="checkbox"/> ) | <b>ak.</b> Hyperlipidemia ( <i>high cholesterol, high triglycerides</i> ):             | ( <input type="checkbox"/> ) |
| <b>o.</b> Gastrointestinal ulcers or other gastrointestinal bleeding: | ( <input type="checkbox"/> ) | <b>al.</b> Pancreatitis:   | ( <input type="checkbox"/> ) |
| <b>p.</b> Biliary diversion:  | ( <input type="checkbox"/> ) | <b>am.</b> Cholelithiasis:   | ( <input type="checkbox"/> ) |
| <b>q.</b> Metabolic acidosis:   | ( <input type="checkbox"/> ) | <b>an.</b> Coronary artery disease:  | ( <input type="checkbox"/> ) |
| <b>r.</b> Edema:  | ( <input type="checkbox"/> ) | <b>ao.</b> Congestive heart failure:   | ( <input type="checkbox"/> ) |
| <b>s.</b> Hepatic encephalopathy:                                     | ( <input type="checkbox"/> ) | <b>ap.</b> Myocardial infarction:  | ( <input type="checkbox"/> ) |
| <b>t.</b> Any other chronic liver disease:                            | ( <input type="checkbox"/> ) | <b>aq.</b> Unstable arrhythmias:   | ( <input type="checkbox"/> ) |
| <b>u.</b> Inflammatory bowel disease:                                 | ( <input type="checkbox"/> ) | <b>ar.</b> Elevated uric acid such as gout:  | ( <input type="checkbox"/> ) |
| <b>v.</b> Short bowel syndrome:                                       | ( <input type="checkbox"/> ) | <b>as.</b> Kidney disease:   | ( <input type="checkbox"/> ) |
| <b>w.</b> Small intestine resection:                                  | ( <input type="checkbox"/> ) | <b>at.</b> Polycystic ovary syndrome:  | ( <input type="checkbox"/> ) |
|   |                              | <b>au.</b> Sleep apnea:  | ( <input type="checkbox"/> ) |
|   |                              | <b>av.</b> Dermatologic disorders:   | ( <input type="checkbox"/> ) |
|   |                              | <b>aw.</b> Myopathy:   | ( <input type="checkbox"/> ) |
|   |                              | <b>ax.</b> Myositis:   | ( <input type="checkbox"/> ) |
|   |                              | <b>ay.</b> Major depression:   | ( <input type="checkbox"/> ) |
|   |                              | <b>az.</b> Schizophrenia:  | ( <input type="checkbox"/> ) |
|   |                              | <b>ba.</b> Bipolar disorder:   | ( <input type="checkbox"/> ) |
|   |                              | <b>bb.</b> Obsessive compulsive disorder:  | ( <input type="checkbox"/> ) |
|   |                              | <b>bc.</b> Severe anxiety or personality disorder:                                     | ( <input type="checkbox"/> ) |
|   |                              | <b>bd.</b> Substance abuse:  | ( <input type="checkbox"/> ) |
|   |                              | <b>be.</b> None of the above:  | ( <input type="checkbox"/> ) |

18. Since the last visit, has the patient had bariatric surgery (*check all that apply*)

- a. Stapling or banding of the stomach: (  )
- b. Jejunioileal (*or other intestinal*) bypass: (  )
- c. Biliopancreatic diversion: (  )
- d. Other bariatric surgery (*specify*): (  )
- \_\_\_\_\_
- e. None of the above: (  )

#### F. Drugs historically associated with NAFLD

19. Since the last visit, has the patient used any of the following:

- ( Yes (  )      No (  ) )
- 20.**
- (*If yes, check all that apply*)
- a. Amiodarone (Pacerone): (  )
- b. Demeclocycline (Declomycin): (  )
- c. Divalproex (Depakote): (  )
- d. Doxycycline (Monodox): (  )
- e. Isonicotinylhydrazine (INH, Isoniazid): (  )
- f. Isotretinoin (Accutane): (  )
- g. Methotrexate (Rheumatrex): (  )
- h. Minocycline (Dynacin, Minocin): (  )
- i. Oxytetracycline (Terramycin): (  )
- j. Tetracycline (Achromycin): (  )
- k. Valproate sodium (Depacon): (  )
- l. Valproic acid (Depakene): (  )
- m. Other known hepatotoxin (*specify*): (  )
- \_\_\_\_\_

20. Since the last visit, has the patient taken any systemic glucocorticoids:

- ( Yes (  )      No (  ) )
- 21.**
- (*If yes, check all that apply*)
- a. Betamethasone sodium (Celestone): (  )
- b. Cortisol: (  )
- c. Cortisone: (  )
- d. Dexamethasone (Decadron): (  )
- e. Hydrocortisone (Hydrocortone): (  )
- f. Methylprednisolone (Solu-Medrol): (  )
- g. Prednisolone (Prelone): (  )
- h. Prednisone: (  )
- i. Triamcinolone (Acetocot, Amcort, Aristocort, Kenacort): (  )
- j. Other, (*specify*): (  )
- \_\_\_\_\_

21. Since the last visit, has the patient taken any anabolic steroids or tamoxifen:

- ( Yes (  )      No (  ) )
- 22.**
- (*If yes, check all that apply*)
- a. Boldenone undecylenate (Equipose): (  )
- b. Fluoxymesterone (Android-F, Halotestin): (  )
- c. Methandrostenolone (Dianabol): (  )
- d. Methyltestosterone (Android): (  )
- e. Nandrolone (Deca-Durabolin, Durabolin, Hybolin Decanoate, Kabolin): (  )
- f. Oxandrolone (Oxandrin): (  )
- g. Oxymetholone (Anadrol): (  )
- h. Stanzolol (Winstrol): (  )
- i. Tamoxifen (Nolvadex): (  )
- j. Testosterone (Depo-Testosterone): (  )
- k. Other, (*specify*): (  )
- \_\_\_\_\_



**G. Use of antidiabetic drugs**

22. Since the last visit, has the patient used any antidiabetic medications:

(<sup>Yes</sup>  
1)      (<sup>No</sup>  
2)

23.

*(If yes, check all that apply)*

- a. Acarbose (Precose): (  )
- b. Acetohexamide (Dymelor): (  )
- c. Chlorpropamide (Diabinese): (  )
- d. Exenatide (Byetta, Bydureon): (  )
- e. Glimepiride (Amaryl): (  )
- f. Glipizide (Glucotrol): (  )
- g. Glyburide (Micronase): (  )
- h. Insulin: (  )
- i. Metformin (Glucophage): (  )
- j. Miglitol (Glycet): (  )
- k. Nateglinide (Starlix): (  )
- l. Pioglitazone (Actos): (  )
- m. Repaglinide (Prandin): (  )
- n. Rosiglitazone (Avandia): (  )
- o. Tolazamide (Tolinase): (  )
- p. Tolbutamide (Orinase): (  )
- q. Other, *(specify)*: (  )
- \_\_\_\_\_

**H. Use of supplements, vitamins, and other drugs**

23. Since the last visit, has the patient taken any of the following supplements/drugs:

(<sup>Yes</sup>  
1)      (<sup>No</sup>  
2)

24.

*(If yes, check all that apply)*

- a. Betaine (Cystadone): (  )
- b. Choline + methionine + betaine + adenosine + pyridoxine (Epocler): (  )
- c. Ursodeoxycholic acid (UDCA, Actigall, URSO, Ursodiol): (  )
- d. S-Adenylmethionine (SAM-e): (  )
- e. Milk thistle: (  )
- f. Probiotics: (  )
- g. Gemfibrozil (Gen-Fibro, Lopid): (  )
- h. Vitamin E: (  )
- i. Vitamin A: (  )
- j. Vitamin B (any type): (  )
- k. Vitamin C: (  )
- l. Vitamin D: (  )
- m. Multivitamin: (  )
- n. Other *(specify)*: (  )

\_\_\_\_\_ specify

**I. Use of statins, fibrates, and antiobesity drugs**

24. Since the last visit, has the patient taken any lipid lowering medications:

( Yes ) ( No )  
 1  2  
**25.**

*(If yes, check all that apply)*

- a. Atorvastatin (Lipitor):  1
- b. Colestipol hydrochloride (Colestid):  1
- c. Clofibrate (Abitrate, Atromid-S, Claripex, Novofibrate):  1
- d. Fenofibrate (Tricor):  1
- e. Fluvastatin sodium (Lescol):  1
- f. Lovastatin (Mevacor):  1
- g. Nicotinic acid (Niaspan):  1
- h. Pravastatin sodium (Pravachol):  1
- i. Rosuvastatin (Crestor):  1
- j. Simvastatin (Zocor):  1
- k. Other, *(specify)*:  1
- 

25. Since the last visit, has the patient taken any antiobesity medications:

( Yes ) ( No )  
 1  2  
**26.**

*(If yes, check all that apply)*

- a. Dexfenfluramine hydrochloride (Redux):  1
- b. Fenfluramine hydrochloride (Pondimin):  1
- c. Methamphetamine hydrochloride (Desoxyn, Gradumet):  1
- d. Orlistat prescription (Xenical):  1
- e. Orlistat (over-the-counter Alli):  1
- f. Phendimetrazine tartrate (Adipost, Bontril):  1
- g. Phentermine hydrochloride (Adipex, Fastin, Ionamin, Teramine):  1
- h. Other, *(specify)*:  1
- 

**J. Use of other medications and supplements**

26. Since the last visit, has the patient taken any histamine H2 receptor antagonists, antacids, or other medications:

( Yes ) ( No )  
 1  2  
**27.**

*(If yes, check all that apply)*

- a. Cimetidine (Tagamet):  1
- b. Esomeprazole magnesium (Nexium):  1
- c. Famotidine (Pepcid):  1
- d. Lansoprazole (Prevacid):  1
- e. Nizatidine (Axid):  1
- f. Omeprazole (Prilosec):  1
- g. Ranitidine (Zantac):  1
- h. Ranitidine bismuth citrate (Tritec):  1
- i. Antacids, *(specify)*:  1
- 
- j. Other, *(specify)*:  1
-



## HF - Liver Biopsy Histology Findings

**Purpose:** Record results of the histologic evaluation of slides from the liver biopsy for eligibility.

**When:** Visit s.

**By whom:** Clinical Coordinator after Study Pathologist completed the Histology Worksheet (HW form).

**Instructions:** The Study Pathologist should complete the Histology Worksheet (HW) using the institution's H & E slide and if available, the institution's Masson's trichrome and iron slides. After completing the HW form, the Study Pathologist should give the worksheet to the Clinical Coordinator who will transcribe the data to the HF form and staple the worksheet to the HF form. If  is checked for any item, the patient is not eligible for CyNCh and the form should not be keyed. If  is checked for an item, use caution; if the Study Physician agrees with the diagnosis, the patient is ineligible for CyNCh and the form should not be keyed.

If fewer than 3 unstained slides are available for the biopsy, the institution's H & E and Masson's trichrome slides must be sent to the DCC for central pathology review. If 3 or more unstained slides are available for the biopsy, only the unstained slides need to be sent to the DCC. The Study Pathologist should forward the stained slides (if needed) and up to 10 unstained slides to the Clinical Coordinator for forwarding to the DCC.

## A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      s \_\_\_\_\_

6. Form & revision:                      h f 1

7. Study:                                      CyNCh 8

## B. Biopsy information

8. Date this biopsy was performed (*obtained from surgical pathology report*):

\_\_\_\_\_

day                      mon                      year

9. What slides are to be used in this evaluation (*check all that apply*)

a. H & E:                                      (  )

b. Masson's trichrome:                      (  )

c. Iron:    (  )

10. Biopsy length:                      \_\_\_\_\_  
 mm

## C. NASH evaluation (use H &amp; E and Masson's trichrome slides only)

11. Steatosis (*assume macro, e.g., large and small droplet*)

a. Grade:

< 5%

(  )  
 (  )

5-33%

(  )

34-66%

(  )

> 66%

(  )

b. Location:

Zone 3

(  )

Zone 1

(  )

Azonal

(  )

Panacinar

(  )

12. Fibrosis stage (*Masson's trichrome stain*)

0: None

(  )

1a: Zone 3, perisinusoidal (requires trichrome)

(  )

1b: Zone 3, perisinusoidal (easily seen on H & E)

(  )

1c: Portal/periportal only

(  )

2: Zone 3 and periportal, any combination

(  )

3: Bridging

(  )

4: Cirrhosis

(  )

**13. Inflammation**

**a. Amount of lobular inflammation:**  
combines mononuclear, fat  
granulomas, and pmn foci:

- 0 ( 0 )
- < 2 / 20x mag ( 1 )
- 2-4 / 20x mag ( 2 )
- > 4 / 20x mag ( 3 )

**b. Amount of portal, chronic  
inflammation:**

- None to minimal ( 0 )
- Mild ( 1 )
- More than mild ( 2 )

**14. Hepatocellular ballooning:**

- None ( 0 )
- Few ( 1 )
- Many ( 2 )

**15. Is steatohepatitis present:**

- Not NAFLD ( 0 )
- NAFLD, not NASH ( 1 )
- Suspicious/borderline/indeterminate ( 2 )
- Yes, definite ( 3 )

**D. Exclusion of other liver disease**

**16. Is there evidence of primary biliary  
cirrhosis:**

- Yes ( \* 1 )
- No ( 2 )

*\* Caution: Primary biliary cirrhosis is  
exclusionary*

**17. Is there evidence of Wilson's disease:**

- Yes ( \* 1 )
- No ( 2 )

*\* Caution: Wilson's disease is exclusionary*

**18. Features of chronic cholestatic liver  
disease (check all that apply)**

- a. Bile duct loss/infiltration/sclerosis:** ( \* 1 )
- b. Florid duct lesions:** ( 1 )
- c. Cholate stasis:** ( 1 )
- d. Copper deposition:** ( 1 )
- e. Other (specify):** ( 1 )

**f. None:** ( 1 )  
*\* Caution: Bile duct obstruction and primary  
sclerosing cholangitis are exclusionary*

**19. Features of other forms of chronic liver  
disease (check all that apply)**

- a. Vascular lesions of ALD/B-C/OVD:** ( 1 )
- b. Inflammation suggestive of AIH,  
HCV:** ( \* 1 )
- c. Pigment suggestive of HH:** ( \* 1 )
- d. Globules suggestive of A1AT:** ( \* 1 )
- e. Hepatocellular changes suggestive of  
HBV:** ( \* 1 )
- f. Granulomas suggestive of sarcoid,  
PBC, infection:** ( \* 1 )
- g. Other (specify):** ( 1 )
- h. None:** ( 1 )

*\* Exclusionary*



**Purpose:** To obtain the patient's view of his/her liver disease symptoms during the CyNCh trial.

**When:** Visits s, f12, f24, f36, f52, and f76.

**Administered by:** Self-administered (age 13-17), interviewer administered (age 8-12). Clinical Coordinator must be available to answer questions and review for completeness.

**Respondent:** Patient, age 8 through 17. Patient age 13 or older should complete the form without help from family. Clinical Coordinator/parent should assist patient age 8-12.

**Instructions:** The Clinical Coordinator should complete Part A below and attach a MACO label to each of pages 2-4. If the form is self-administered by the patient, the patient should meet with the Clinical Coordinator, be trained in the completion of the form, and then should complete pages 2-4. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be reattached to pages 2-4 and the Clinical Coordinator should then complete section B below.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:   1     p     1
7. Study: CyNCh   8

### B. Administrative information

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the questionnaire completed:
  - Self-administered by patient/parent ( )
  - 10.** Interview in English ( 2 )
  - Interview with translator ( 3 )
9. Who was the respondent (*check all that apply*):
  - a. Patient: ( )
  - b. Patient's mother or female guardian: ( )
  - c. Patient's father or male guardian: ( )
  - d. Other (*specify*): ( )

\_\_\_\_\_ specify

### 10. Clinical Coordinator

- a. PIN: \_\_\_\_\_
- b. Signature: \_\_\_\_\_

### 11. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

Affix label here

Patient ID: \_\_\_\_\_

Patient code: \_\_\_\_\_

Visit code: \_\_\_\_\_

## Symptoms of Liver Disease

**Instructions:** People with liver disease may or may not have symptoms, such as pain over the liver area (under your ribs, right of your belly), feeling sick to your stomach, poor appetite (not feeling hungry), itching, or tiredness. In this questionnaire, we are trying to identify what symptoms you have, how severe they are, and how much they affect you.

*(Items 1-11 are reserved for clinical center use.)*

**12.** During the last month, how much have you been bothered by the following:

*Circle one for each symptom*

### Degree of bother

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>a.</b> Pain over liver (pain under ribs, right of your belly)	1	2	3	4	5
<b>b.</b> Nausea (sick to stomach)	1	2	3	4	5
<b>c.</b> Poor appetite (not hungry)	1	2	3	4	5
<b>d.</b> Fatigue (get tired easily)	1	2	3	4	5
<b>e.</b> Weight loss	1	2	3	4	5
<b>f.</b> Diarrhea (watery poop)	1	2	3	4	5
<b>g.</b> Muscle aches or cramps	1	2	3	4	5
<b>h.</b> Muscle weakness (feel limp)	1	2	3	4	5
<b>i.</b> Headaches	1	2	3	4	5
<b>j.</b> Easy bruising (“black and blue” marks are easy to get)	1	2	3	4	5
<b>k.</b> Itching	1	2	3	4	5
<b>l.</b> Irritability (get mad easily)	1	2	3	4	5
<b>m.</b> Depression/sadness	1	2	3	4	5
<b>n.</b> Trouble sleeping	1	2	3	4	5
<b>o.</b> Trouble concentrating (trouble with attention, thinking about one thing at a time)	1	2	3	4	5



*Affix label here*

Patient ID:    \_\_\_\_\_

Patient code:    \_\_\_\_\_

Visit code:    \_\_\_\_\_

*Circle one for each symptom*  
**Degree of bother**

	None at all	A little bit	Medium	Quite a bit	Extremely
<b>p.</b> Jaundice (yellow color to skin, eyes, etc)	1	2	3	4	5
<b>q.</b> Dark urine (dark pee)	1	2	3	4	5
<b>r.</b> Swelling of ankles	1	2	3	4	5
<b>s.</b> Swelling of abdomen (belly swells up)	1	2	3	4	5

**13.** Which of the following best describes how tired you feel and how your tiredness affects you (*choose only one*):

*Circle one*

- I feel normal and am not tired (**If this is how you feel, please circle “1” and go to item number 17 – Thank you!**) ..... 1
- I feel tired some of the time, but can do what I want to do without trouble ..... 2
- I feel tired, and do what I want but with trouble ..... 3
- I feel tired and it keeps me from doing what I want to do ..... 4

**14.** How often are you bothered by being tired (*choose only one*):

- All day, every day ..... 1
- Part of the day, every day ..... 2
- At least part of several days a week ..... 3
- At least part of one day a week ..... 4
- Not as much as above ..... 5

**15.** Are you tired (*choose only one*):

- When you wake up in the morning ..... 1
- Or does it come on with the day ..... 2
- Or does it have no time pattern ..... 3

<i>Affix label here</i>	
Patient ID:	___ ___ ___
Patient code:	___ ___
Visit code:	___ ___

16. Do you feel more tired the day after you exercise or have a lot of activity:

- Yes ..... 1
- No ..... 2

17. In general, how have you felt overall in the past month:

- Very good ..... 1
- Good ..... 2
- Fair ..... 3
- Poor ..... 4
- Awful ..... 5

18. Today's date:

\_\_\_\_\_

**Thank you for completing this questionnaire.**



**C. Chemistries**

*Required at visits s, f24, f52, and f76.*

14. Is metabolic panel required at this visit:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 24.

15. Date of blood draw for chemistries:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Date must be within the required time window; within 90 days of liver biopsy or in the time window for the followup visit (check the patient's CyNCh visit time window guide).*

16. Sodium:

\_\_\_\_ mEq/L

17. Potassium:

\_\_\_\_ mEq/L

18. Chloride:

\_\_\_\_ mEq/L

19. Bicarbonate:

\_\_\_\_ mEq/L

20. Calcium:

\_\_\_\_ mg/dL

21. Blood urea nitrogen (BUN):

\_\_\_\_ mg/dL

22. Creatinine:

\_\_\_\_ mg/dL

23. Uric acid:

\_\_\_\_ mg/dL

**D. Prothrombin time and INR**

*Required at all visits.*

24. Date of blood draw for prothrombin time and INR:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Date must be in the required time window; within 90 days of liver biopsy or in the time window for the followup visit (check the patient's CyNCh visit time window guide).*

25. Prothrombin time (PT):

\_\_\_\_ sec

26. International normalized ratio (INR)  
*(if INR > 1.4, patient is ineligible):*

\_\_\_\_

**E. Hemoglobin A1c**

*Required at visits s, f24, f52, and f76.*

27. Is HbA1c required at this visit:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 30.

28. Date of blood draw for HbA1c:

\_\_\_\_ day \_\_\_\_ mon \_\_\_\_ year

*Date must be within the required time window; within 90 days of randomization or in the time window for the follow-up visit (check the patient's CyNCh visit time window guide).*

29. HbA1c (if HbA1c is > 9.0% within 90 days of randomization, patient is ineligible):

\_\_\_\_ %

**F. Liver panel**

*Required at all visits.*

**30.** Date of blood draw for liver panel:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

*Date must be within the required time window; within 90 days of liver biopsy or in the time window for the follow-up visit (check the patient's CyNCh visit time window guide).*

**31.** Bilirubin (total) [if total bilirubin > 3.0 mg/dL at screening, patient is ineligible]:

\_\_\_\_ . \_\_\_\_  
 mg/dL

**32.** Bilirubin (conjugated or direct) [if direct bilirubin > 1.0 mg/dL at screening, patient is ineligible]:

\_\_\_\_ . \_\_\_\_  
 mg/dL

**33.** Aspartate aminotransferase (AST)

\_\_\_\_  
 U/L

**a.** Upper limit of normal:

\_\_\_\_  
 U/L

**34.** Alanine aminotransferase (ALT)

\_\_\_\_  
 U/L

**a.** Upper limit of normal:

\_\_\_\_  
 U/L

**35.** Alkaline phosphatase

\_\_\_\_  
 U/L

**a.** Upper limit of normal:

\_\_\_\_  
 U/L

**36.** Albumin (if albumin < 3.2 g/dL at screening, patient is ineligible):

\_\_\_\_ . \_\_\_\_  
 g/dL

**37.** Total protein:

\_\_\_\_ . \_\_\_\_  
 g/dL

**38.** Gamma glutamyl transferase (GGT):

\_\_\_\_  
 U/L

**G. Fasting lipid profile**

*Required at visits s, f24, f52, and f76.*

*Fasting is defined as nothing by mouth except water for greater than or equal to 12 hours prior to blood draw.*

**39.** Is the lipid profile required at this visit:

(Yes) (No)  
 ( 1 ) ( 2 )  
**42.**

**40.** Was participant fasting for at least 8 hours prior to blood draw:

(Yes) (No)  
 ( 1 ) ( \* 2 )

*\*12 hour fasting is preferred, but will accept non-fasting lipid values.*

**41.** Date of blood draw for fasting lipid profile:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

*Date must be within the required time window; within 90 days of liver biopsy or in the time window for the followup visit (check the patient's CyNCh visit time window guide).*

**a.** Triglycerides:

\_\_\_\_  
 mg/dL

**b.** Total cholesterol:

\_\_\_\_  
 mg/dL

**c.** HDL cholesterol level:

\_\_\_\_  
 mg/dL

**d.** LDL cholesterol level\*:

\_\_\_\_  
 mg/dL

*\*Enter "GT" if LDL cannot be calculated due to high triglycerides.*

**H. Fasting glucose and insulin**

*Required at visits s, f24, f52, and f76.*

42. Are glucose and insulin required at this visit:

Yes ( 1 )      No ( 2 )  
        
45.

43. Was participant fasting for at least 8 hours prior to blood draw:

Yes ( 1 )      No ( \* 2 )  
        
45.

*\*Patient must be fasting; 12 hour fasting is preferred. Fasting glucose and insulin must be obtained at visit s.*

44. Date of blood draw for fasting glucose and insulin:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

*Date must be within 90 days of liver biopsy or in the time window for the followup visit (check the patient's CyNCh visit time window guide).*

a. Serum glucose: \_\_\_\_\_ mg/dL

b. Serum insulin: \_\_\_\_\_ μU/mL

**I. Pregnancy test**

*Required at all study visits, if applicable.*

45. Is pregnancy test applicable:

Yes ( 1 )      No ( 2 )  
        
48.

46. Date of urine collection (or blood draw):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

*Date must be the same day as date of visit.*

47. Pregnancy test result (if pregnancy test is positive at screening visit, patient is ineligible):

Positive ( 1 )  
 Negative ( 2 )

**J. Eligibility check**

48. Is this the screening visit:

Yes ( 1 )      No ( 2 )  
        
50.

49. Was the patient found to be ineligible based on hemoglobin (item 9), WBC (item 12a), neutrophils (item 12b), platelet count (item 13), albumin (item 36), INR (item 26), HbA1c (item 29), bilirubin total (item 31), direct bilirubin (item 32), pregnancy test (item 47), or based on missing tests:

Yes ( 1 )      No ( 2 )  
       Elig

**K. Administrative information**

50. Study Physician PIN: \_\_\_\_\_

51. Study Physician signature: \_\_\_\_\_

52. Clinical Coordinator PIN: \_\_\_\_\_

53. Clinical Coordinator signature: \_\_\_\_\_

54. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day                      mon                      year

## LS - Laboratory Results

### Tests Done Only During Screening

**Purpose:** To record archival and current results of laboratory tests done only at screening.

**When:** Visit s.

**Administered by:** Study Physician and Clinical Coordinator.

**Instructions:** Laboratory test results may be obtained from chart review. The acceptable time interval for archival laboratory data is specified for each test and recorded next to the date of blood draw. Laboratory tests should be repeated if the blood draw date is outside the specified time interval. If  is checked for any item the patient is not eligible for the CyNCh trial. If  is checked for an item and the Study Physician agrees with the diagnosis, the patient is ineligible for CyNCh.

#### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                    s \_\_\_\_\_

6. Form & revision:           1 s 2

7. Study:                            CyNCh 8

#### B. Screening etiologic tests

8. Date of blood draw for serological assays to exclude viral causes of chronic liver disease:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
   day  mon  year

*Repeat if date is greater than 2 years prior to screening.*

a. Hepatitis B surface antigen (HBsAg):

Positive ( 1 )  
 E.Hg

Negative ( 2 )

b. Hepatitis C antibody (anti-HCV) (*indicate result as negative if EIA is positive but RIBA is negative*):

Positive ( 1 )  
 E.Hg

Negative ( 2 )

c. Hepatitis C virus RNA (HCV RNA):

Positive ( 1 )  
 E.Hg

Negative ( 2 )

Not available ( 3 )

**C. Autoantibody studies**

9. Date of blood draw for autoantibody tests:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 2 years prior to screening.

10. Anti-nuclear antibody (ANA):

Positive ( \* 1 )  
 Negative ( 2 )

12.

\* If positive ANA value, complete either a or b depending on laboratory results.

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units:

\_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

11. Is ANA titer greater than 1:80

Yes ( \* 1 ) No ( 2 )  
 C

\* Check Liver Biopsy Histology Findings Form for autoimmune liver disease.

12. Date of blood draw for anti-smooth muscle antibody (ASMA):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 2 years prior to screening.

13. Anti-smooth muscle antibody (ASMA):

Positive ( \* 1 )  
 Negative ( 2 )

14.

\* If positive ASMA value, complete either a or b depending on laboratory results.

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units:

\_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

14. Date of blood draw for anti-mitochondrial antibody (AMA):

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 2 years prior to screening.

15. Anti-mitochondrial antibody (AMA):

Positive ( \* 1 )  
 Negative ( 2 )

17.

Not available ( 3 )

17.

\* If positive AMA value, complete either a or b depending on laboratory results.

a. Titer (record only the denominator):

1/ \_\_\_\_\_

b. Units:

\_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

16. Is AMA titer greater than 1:80

Yes ( \* 1 ) No ( 2 )  
 C

\* Check Liver Biopsy Histology Findings Form for primary biliary cirrhosis.

**D. Ceruloplasmin**

17. Date of blood draw for ceruloplasmin:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

Repeat if date is greater than 2 years prior to screening.

18. Ceruloplasmin

\_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

a. Lower limit of normal: \_\_\_\_\_ • \_\_\_\_\_  
 mg/dL

b. Is ceruloplasmin below the lower limit of normal:

Yes ( \* 1 ) No ( 2 )  
 C

\* Check Liver Biopsy Histology Findings Form for Wilson's Disease.





**Purpose:** To document collection of extra liver tissue and procedures for liver tissue banking.

**When:** Visits *s* and *f52* when more than 2 cm of liver tissue are obtained during a biopsy. This form is expected when the Liver Biopsy Materials Documentation (SD) form says liver tissue was obtained for banking.

**By whom:** Clinical Coordinator, in consultation with study physician.

**Instructions:** Liver biopsy tissue should be obtained by a needle core biopsy (as opposed to a wedge biopsy) using a 16 gauge or greater needle. Whenever more than 2 cm of tissue are obtained during biopsy, place a 1-2 mm segment of liver tissue into a labeled 2.0 mL polypropylene cryovial pre-filled with approximately 1 mL of RNAlater® Solution. Liver tissue should be placed in RNAlater® Solution within one minute and no more than 5 minutes after biopsy. **Note: If the sample is not placed in RNAlater® Solution within 5 minutes, discard the cryovial.** Refrigerate the cryovial at 4° C overnight to allow thorough penetration of the liver tissue and then transfer to -70° C freezer for storage. Batch ship cryovials monthly on dry ice to the NIDDK Biosample Repository located at Fisher BioServices.

#### A. Center, patient and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated:  
 \_\_\_\_\_  
 day mon year

5. Visit code (*s* or *f52*): \_\_\_\_\_

6. Form & revision: 1 t 1

7. Study: CyNCh 8

#### B. Liver biopsy/RNAlater® Solution storage procedures

8. Date of biopsy:  
 \_\_\_\_\_  
 day mon year

9. Was the liver tissue obtained from a needle core biopsy (*as opposed to a wedge biopsy*):  
 Yes ( 1 ) No ( 2 )

10. Was liver tissue placed in RNAlater® Solution preferably within 1 minute, but no more than 5 minutes after biopsy:  
 Yes ( 1 ) No ( \*2 )

\* Discard liver tissue

11. Was liver tissue refrigerated at 4° C overnight, then transferred to freezer for storage:

Yes ( 1 ) No ( 2 )  
 12.

a. If no, describe conditions of local storage:

\_\_\_\_\_  
 \_\_\_\_\_

#### C. Cryovial label

12. Attach duplicate cryovial label (*make sure you attach the duplicate of the label attached to the cryovial holding the liver tissue from this biopsy*):



#### D. Administrative information

13. Clinical Coordinator PIN: \_\_\_\_\_

14. Clinical Coordinator signature: \_\_\_\_\_

15. Date form reviewed:  
 \_\_\_\_\_  
 day mon year



**13. Dates images sent to MRI Reading Center**

**a. By CD/DVD:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**b. By secure in-server connection (enter "m" if not available):**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year

**D. Administrative information**

**14. Study Radiologist or Study Physician**

PIN: \_\_\_\_\_

**15. Study Radiologist or Study Physician signature:**

\_\_\_\_\_

**16. Clinical Coordinator PIN:** \_\_\_\_\_

**17. Clinical Coordinator signature:**

\_\_\_\_\_

**18. Date form reviewed:**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
day mon year



**12. Reason form(s) not completed**  
*(check all that apply)*

- a. Patient was ill: ( )
- b. Patient/parent refused procedure: ( )
- c. Procedure forgotten: ( )
- d. Other *(specify)*: ( )

\_\_\_\_\_ specify

**13. Attempts made to complete form(s)**  
*(check all that apply)*

- a. Attempted to reschedule procedure: ( )
- b. Attempted to collect interview data by phone from patient/parent: ( )
- c. Attempted to gain patient/parent cooperation: ( )
- d. Other *(specify)*: ( )

\_\_\_\_\_ specify

**E. Administrative information**

14. Clinical Coordinator PIN: \_\_\_\_\_

15. Clinical Coordinator signature:  
\_\_\_\_\_

16. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**Purpose:** To document completion of the 24-hour food recall using NDS-R on three different days.

**When:** Visits and f52.

**Administered by:** Clinical Coordinator.

**Instructions:** Complete this form after the patient has completed the 24-hour food recalls using the NDS-R. Attach a copy of the NDS-R Record Properties Report for each recall to this form.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date form initiated (*cannot precede the date of the first diet recall*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code: \_\_\_\_\_

6. Form & revision:   n  d  2  

7. Study:                   CyNCh  8  

### B. Administration of food recall #1

8. Date of 24-hour food recall #1:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

9. How was the NDS-R food recall completed (*you must check at least three*)

a. Interview in English: (  )

b. Interview with translator: (  )  
     (*check a or b or both*)

c. Interview in person: (  )

d. Interview by phone: (  )  
     (*check either c or d*)

e. Administered by dietician: (  )

f. Administered by Clinical Coordinator: (  )

g. Administered by other (*specify*): (  )  
     (*check either e, f, or g*)

\_\_\_\_\_ specify

10. Who was the respondent (*check all that apply*)

a. Patient: (  )

b. Patient's mother or female guardian: (  )

c. Patient's father or male guardian: (  )

d. Other (*specify*): (  )

\_\_\_\_\_ specify

11. NDS-R record properties report

a. Energy: \_\_\_\_\_ kilocalories

b. Total fat: \_\_\_\_\_ grams

c. Total saturated fatty acids (SFA): \_\_\_\_\_ grams

d. Total carbohydrates: \_\_\_\_\_ grams

e. Total sugars: \_\_\_\_\_ grams

f. Total protein: \_\_\_\_\_ grams

**C. Administration of food recall #2**

12. Date of 24-hour food recall #2:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

13. How was the NDS-R food recall completed (*you must check at least three*)

- a. Interview in English: (  )
- b. Interview with translator: (  )  
*(check a or b or both)*
- c. Interview in person: (  )
- d. Interview by phone: (  )  
*(check either c or d)*
- e. Administered by dietician: (  )
- f. Administered by Clinical Coordinator: (  )
- g. Administered by other (*specify*): (  )  
*(check either e, f, or g)*

\_\_\_\_\_  
 specify

14. Who was the respondent (*check all that apply*)

- a. Patient: (  )
- b. Patient's mother or female guardian: (  )
- c. Patient's father or male guardian: (  )
- d. Other (*specify*): (  )

\_\_\_\_\_  
 specify

15. NDS-R record properties report

- a. Energy: \_\_\_\_\_ kilocalories
- b. Total fat: \_\_\_\_\_ grams
- c. Total saturated fatty acids (SFA): \_\_\_\_\_ grams
- d. Total carbohydrates: \_\_\_\_\_ grams
- e. Total sugars: \_\_\_\_\_ grams
- f. Total protein: \_\_\_\_\_ grams

**D. Administration of food recall #3**

16. Date of 24-hour food recall #3:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 day mon year

17. How was the NDS-R food recall completed (*you must check at least three*)

- a. Interview in English: (  )
- b. Interview with translator: (  )  
*(check a or b or both)*
- c. Interview in person: (  )
- d. Interview by phone: (  )  
*(check either c or d)*
- e. Administered by dietician: (  )
- f. Administered by Clinical Coordinator: (  )
- g. Administered by other (*specify*): (  )  
*(check either e, f, or g)*

\_\_\_\_\_  
 specify

18. Who was the respondent (*check all that apply*)

- a. Patient: (  )
- b. Patient's mother or female guardian: (  )
- c. Patient's father or male guardian: (  )
- d. Other (*specify*): (  )

\_\_\_\_\_  
 specify

19. NDS-R record properties report

- a. Energy: \_\_\_\_\_ kilocalories
- b. Total fat: \_\_\_\_\_ grams
- c. Total saturated fatty acids (SFA): \_\_\_\_\_ grams
- d. Total carbohydrates: \_\_\_\_\_ grams
- e. Total sugars: \_\_\_\_\_ grams
- f. Total protein: \_\_\_\_\_ grams



**D. Administrative information**

20. Version of NDS-R used:   2     0     1   \_\_\_\_\_

21. Clinical Coordinator PIN: \_\_\_\_\_

22. Clinical Coordinator signature:  
\_\_\_\_\_

23. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
          day          mon          year

*Attach copy of the NDS-R Record Properties Report for each 24-hour recall to this form.*



**11. Hip** (*standing, at fullest part of the hips; repeat hip measurements until you have two measurements within 4 in (10.2 cm) of each other*)

**a. Circumference, 1st measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

**b. Circumference, 2nd measurement:**

\_\_\_\_\_ ● \_\_\_\_\_  
hip circumference

**c. Units:**

- Inches ( 1 )  
Centimeters ( 2 )

**12. Temperature** (*Oral*)

**a. Degrees:**

\_\_\_\_\_ ● \_\_\_\_\_

**b. Scale:**

- Fahrenheit ( 1 )  
Centigrade ( 2 )

**13. Blood pressure**

**a. Systolic:**

\_\_\_\_\_ mmHg

**b. Diastolic:**

\_\_\_\_\_ mmHg

**14. Resting radial pulse:**

\_\_\_\_\_ beats/minute

**15. Respiratory rate:**

\_\_\_\_\_ breaths/minute

**C. Examination findings**

**16. Skin:**

- Normal ( 1 )  
Abnormal **19.** ( 2 )

**17. Acanthosis nigricans** (*check only one*):

Absent (*not detectable on close inspection*) ( 0 )

Present (*clearly present on close inspection, not visible to casual observer, extent not measurable*) ( 1 )

Mild (*limited to base of skull, not extending to lateral margins of neck, < 3 inches in breadth*) ( 2 )

Moderate (*extending to lateral margins of neck, 3-6 inches in breadth, not visible from patient's front*) ( 3 )

Severe (*extending anteriorly, > 6 inches in breadth, visible from front*) ( 4 )

**18. Other skin abnormality** (*check all that apply*)

**a. Jaundice:** ( 1 )

**b. Palmar erythema:** ( 1 )

**c. Spider angiomata:** ( 1 )

**d. Striae:** ( 1 )

**e. Skin lesions:** ( 1 )

**f. Other** (*specify*): ( 1 )

**g. None of the above:** ( 1 )

**19. Head, eyes, ears, nose, throat:**

Normal ( 1 )

Abnormal **20.** ( 2 )

\_\_\_\_\_ specify abnormality

**20. Neck:**

Normal ( 1 )

Abnormal **21.** ( 2 )

\_\_\_\_\_ specify abnormality

**21. Lymphatic:**

Normal ( 1 )

Abnormal **22.** ( 2 )

\_\_\_\_\_ specify abnormality

**22. Chest and lungs:**

- Normal ( 1 )  
 Abnormal  23. ( 2 )

\_\_\_\_\_ specify

**23. Heart:**

- Normal ( 1 )  
 Abnormal  24. ( 2 )

\_\_\_\_\_ specify abnormality

**24. Abdomen:**

- Normal ( 1 )  
 Abnormal  26. ( 2 )

**25. Abdomen abnormality**  
*(check all that apply)*

- a. Ascites: ( 1 )  
 b. Obese: ( 1 )  
 c. Hepatomegaly: ( 1 )  
*(if checked, span from right midclavicular line):*

\_\_\_\_\_ cm

- d. Splenomegaly: ( 1 )  
 e. Other *(specify)*: ( 1 )

\_\_\_\_\_

**26. Extremities:**

- Normal ( 1 )  
 Abnormal  28. ( 2 )

**27. Abnormality of the extremities**  
*(check all that apply)*

- a. Contractures: ( 1 )  
 b. Joint hyperextension: ( 1 )  
 c. Muscle wasting: ( 1 )  
 d. Palmar erythema: ( 1 )  
 e. Pedal edema: ( 1 )  
 f. Other *(specify)*: ( 1 )

\_\_\_\_\_ specify

**28. Nervous system:**

- Not performed ( 0 )  
 Normal ( 1 )  
 Abnormal ( 2 )

\_\_\_\_\_ specify

**D. Ability to swallow study medication**

*(At the randomization visit the Study Physician/Clinical Coordinator will be asked to provide assurance that the patient is able to swallow the CyNCh study medication; if needed, you could ask the patient to swallow a placebo capsule).*

**29. Is this the screening visit:**

- ( Yes ( 1 ) No ( 2 ) )  
 31.

**30. Was the patient able to swallow a placebo capsule** *(check only one):*

- Yes, patient was able to swallow capsule ( 1 )  
 No, patient was unable to swallow the capsule ( 2 )

31.

Did not ask for a demonstration at this time ( 3 )

**E. Administrative information**

**31. Study Physician PIN:** \_\_\_\_\_

**32. Study Physician signature:**  
 \_\_\_\_\_

**33. Clinical Coordinator PIN:** \_\_\_\_\_

**34. Clinical Coordinator signature:**  
 \_\_\_\_\_

**35. Date form reviewed:**  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year



14. Resting radial pulse: \_\_\_\_\_  
beats/minute

15. Respiratory rate: \_\_\_\_\_  
breaths/minute

**C. Liver signs**

16. Liver and spleen:  
Normal ( )  
Abnormal ( )

18.

17. Abnormality (check all that apply)

- a. Ascites: ( )
- b. Asterixis: ( )
- c. Contractures: ( )
- d. Fetor: ( )
- e. Hepatomegaly: ( )

If Yes, span from right midclavicular line:

\_\_\_\_\_ • \_\_\_\_\_  
cm

- f. Jaundice: ( )
- g. Muscle wasting: ( )
- h. Palmar erythema: ( )
- i. Pedal edema: ( )
- j. Spider angiomata: ( )
- k. Splenomegaly: ( )
- l. Other, (specify): ( )

\_\_\_\_\_ specify abnormality

**D. Administrative information**

18. Study Physician ID: \_\_\_\_\_

19. Study Physician signature:  
\_\_\_\_\_

20. Clinical Coordinator ID: \_\_\_\_\_

21. Clinical Coordinator signature:  
\_\_\_\_\_

22. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

**PQ – Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s, f52, and f76.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of teens, age 13-17.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #8, Instructions for Pediatric Quality of Life (Forms PQ and PR) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p   q   1
7. Study:  CyNCh 8

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

**PQ - Pediatric Quality of Life:  
Parent Report for Teens (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has your teen had with...

<b>PHYSICAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other teens:	0	1	2	3	4
<b>27.</b> Not able to do things that other teens his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up with other teens:	0	1	2	3	4



*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:   \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

**PR – Pediatric Quality of Life:  
Parent Report for Children (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s, f52, and f76.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Parent of child, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The parent should meet with the Clinical Coordinator and should be trained in completion of the form. Give the parent Flash Card #8, Instructions for Pediatric Quality of Life (Forms PQ and PR) and review the instructions with the parent. The parent should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the parent leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p r 1
7. Study: CyNCh  8

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## PR - Pediatric Quality of Life: Parent Report for Children (Age 8-12)

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:   \_\_\_ \_\_\_

Visit code:     \_\_\_ \_\_\_

In the past **ONE month**, how much of a **problem** has your child had with...

<b>PHYSICAL FUNCTIONING</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> Walking more than one block:	0	1	2	3	4
<b>12.</b> Running:	0	1	2	3	4
<b>13.</b> Participating in sports activity or exercise:	0	1	2	3	4
<b>14.</b> Lifting something heavy:	0	1	2	3	4
<b>15.</b> Taking a bath or shower by him or herself:	0	1	2	3	4
<b>16.</b> Doing chores around the house:	0	1	2	3	4
<b>17.</b> Having hurts or aches:	0	1	2	3	4
<b>18.</b> Low energy level:	0	1	2	3	4

<b>EMOTIONAL FUNCTIONING</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> Feeling afraid or scared:	0	1	2	3	4
<b>20.</b> Feeling sad or blue:	0	1	2	3	4
<b>21.</b> Feeling angry:	0	1	2	3	4
<b>22.</b> Trouble sleeping:	0	1	2	3	4
<b>23.</b> Worrying about what will happen to him or her:	0	1	2	3	4

<b>SOCIAL FUNCTIONING</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> Getting along with other children:	0	1	2	3	4
<b>25.</b> Other kids not wanting to be his or her friend:	0	1	2	3	4
<b>26.</b> Getting teased by other children:	0	1	2	3	4
<b>27.</b> Not able to do things that other children his or her age can do:	0	1	2	3	4
<b>28.</b> Keeping up when playing with other children:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_

<b>SCHOOL FUNCTIONING</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> Paying attention in class:	0	1	2	3	4
<b>30.</b> Forgetting things:	0	1	2	3	4
<b>31.</b> Keeping up with schoolwork:	0	1	2	3	4
<b>32.</b> Missing school because of not feeling well:	0	1	2	3	4
<b>33.</b> Missing school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

**PW – Pediatric Quality of Life:  
Child Report (Age 8-12)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s, f52, and f76.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, age 8-12.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The patient should meet with the Clinical Coordinator and should be trained in completion of the form. Give the patient Flash Card #7, Instructions for Pediatric Quality of Life (Forms PW and PY) and review the instructions with the patient. The patient should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p w 1
7. Study: CyNCh  8

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

## PW - Pediatric Quality of Life: Child Report (Age 8-12)

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:   \_\_\_ \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

In the past **ONE month**, how much of a **problem** has this been for you...

ABOUT MY HEALTH AND ACTIVITIES <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
11. It is hard for me to walk more than one block:	0	1	2	3	4
12. It is hard for me to run:	0	1	2	3	4
13. It is hard for me to do sports activity or exercise:	0	1	2	3	4
14. It is hard for me to lift something heavy:	0	1	2	3	4
15. It is hard for me to take a bath or shower by myself:	0	1	2	3	4
16. It is hard for me to do chores around the house:	0	1	2	3	4
17. I hurt or ache:	0	1	2	3	4
18. I have low energy:	0	1	2	3	4

ABOUT MY FEELINGS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
19. I feel afraid or scared:	0	1	2	3	4
20. I feel sad or blue:	0	1	2	3	4
21. I feel angry:	0	1	2	3	4
22. I have trouble sleeping:	0	1	2	3	4
23. I worry about what will happen to me:	0	1	2	3	4

HOW I GET ALONG WITH OTHERS <i>(problems with...)</i>	Never	Almost Never	Some-times	Often	Almost Always
24. I have trouble getting along with other kids:	0	1	2	3	4
25. Other kids do not want to be my friend:	0	1	2	3	4
26. Other kids tease me:	0	1	2	3	4
27. I cannot do things that other kids my age can do:	0	1	2	3	4
28. It is hard to keep up when I play with other kids:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_

<b>ABOUT SCHOOL</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

**PY – Pediatric Quality of Life:  
Teen Report (Age 13-17)**

**Purpose:** To obtain the patient's quality of life.

**When:** Visits s, f52, and f76.

**Administered by:** Self-administered. Clinical Coordinator must be available at visits to answer questions and to review completed forms.

**Respondent:** Patient, age 13-17.

**Instructions:** The Clinical Coordinator should complete section A below and attach a label to pages 2-3. The patient should meet with the Clinical Coordinator and should be trained in completion of the form. Give the patient Flash Card #7, Instructions for Pediatric Quality of Life (Forms PY and PW) and review the instructions with the patient. The patient should then complete pages 2-3. The Clinical Coordinator should review the completed form for missing responses and resolve any problems before the patient leaves the clinical center. Page 1 should be re-attached to pages 2-3 and the Clinical Coordinator should complete section B. The NASH CRN has contracted with the PedsQL™ creators to use their forms in NASH CRN studies. These forms should not be used or copied for non NASH CRN purposes.

**A. Center, patient, and visit identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date form completed:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
5. Visit code: \_\_\_\_\_
6. Form & revision:  p   y   1
7. Study:  CyNCh 8

**B. Administrative information**

*(To be completed by Clinical Coordinator after survey is completed.)*

8. How was the Pediatric Quality of Life questionnaire completed:

Self-administered in English ( 1 )  
 Self-administered in Spanish ( 2 )  
 Interview in English ( 3 )  
 Interview in Spanish ( 4 )

9. Clinical Coordinator

a. PIN: \_\_\_\_\_  
 b. Signature: \_\_\_\_\_

10. Date form reviewed:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year



**PY - Pediatric Quality of Life:  
Adolescent (Age 13-17)**

<i>Affix label here</i>	
Patient ID:	_____
Patient code:	_____
Visit code:	_____

In the past **ONE month**, how much of a **problem** has this been for you...

<b>ABOUT MY HEALTH AND ACTIVITIES</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>11.</b> It is hard for me to walk more than one block:	0	1	2	3	4
<b>12.</b> It is hard for me to run:	0	1	2	3	4
<b>13.</b> It is hard for me to do sports activity or exercise:	0	1	2	3	4
<b>14.</b> It is hard for me to lift something heavy:	0	1	2	3	4
<b>15.</b> It is hard for me to take a bath or shower by myself:	0	1	2	3	4
<b>16.</b> It is hard for me to do chores around the house:	0	1	2	3	4
<b>17.</b> I hurt or ache:	0	1	2	3	4
<b>18.</b> I have low energy:	0	1	2	3	4

<b>ABOUT MY FEELINGS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>19.</b> I feel afraid or scared:	0	1	2	3	4
<b>20.</b> I feel sad or blue:	0	1	2	3	4
<b>21.</b> I feel angry:	0	1	2	3	4
<b>22.</b> I have trouble sleeping:	0	1	2	3	4
<b>23.</b> I worry about what will happen to me:	0	1	2	3	4

<b>HOW I GET ALONG WITH OTHERS</b> ( <i>problems with...</i> )	<b>Never</b>	<b>Almost Never</b>	<b>Some-times</b>	<b>Often</b>	<b>Almost Always</b>
<b>24.</b> I have trouble getting along with other teens:	0	1	2	3	4
<b>25.</b> Other teens do not want to be my friend:	0	1	2	3	4
<b>26.</b> Other teens tease me:	0	1	2	3	4
<b>27.</b> I cannot do things that other teens my age can do:	0	1	2	3	4
<b>28.</b> It is hard to keep up with my peers:	0	1	2	3	4

*Affix label here*

Patient ID:    \_\_\_ \_\_\_ \_\_\_

Patient code:    \_\_\_ \_\_\_ \_\_\_

Visit code:    \_\_\_ \_\_\_ \_\_\_

<b>ABOUT SCHOOL</b> <i>(problems with...)</i>	<b>Never</b>	<b>Almost Never</b>	<b>Some- times</b>	<b>Often</b>	<b>Almost Always</b>
<b>29.</b> It is hard to pay attention in class:	0	1	2	3	4
<b>30.</b> I forget things:	0	1	2	3	4
<b>31.</b> I have trouble keeping up with my schoolwork:	0	1	2	3	4
<b>32.</b> I miss school because of not feeling well:	0	1	2	3	4
<b>33.</b> I miss school to go to the doctor or hospital:	0	1	2	3	4

**Thank you for completing this questionnaire.**

**Purpose:** To rescreen a patient who was previously found to be ineligible for the CyNCh Trial due to a temporary ineligibility. This form must be the first form completed and keyed for the patient for this screening cycle (the date in item 4 of this form will be the date that the 120-day screening window starts). The original RG form completed for the patient must remain in the data system. New screening labels will be available for printing upon keying this form.

**When:** Visit code s.

**Administered by:** Clinical Coordinator.

**Respondent:** None.

**Instructions:** Complete this form for a patient who was previously found to be ineligible for CyNCh due to a temporary ineligibility and who now wants to rescreen for CyNCh. In general, the patient must complete all CyNCh screening data collection anew and all previously keyed CyNCh screening forms should be deleted from the data system except the RG and possibly the CG form. If needed, update section C (only education and employment history) of the RG form and update the keyed record (you cannot delete the RG form); note that the patient's age will not change since it is based on the date of the RG form. If any changes are made in section C, the review date in section F should be updated. If blood was collected successfully for the Genetics Repository, a new sample does not need to be collected and the previously completed CG form may remain unchanged in the data system. Plasma and serum must be collected anew.

### A. Center, patient, and visit identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of visit:  
 \_\_\_\_\_  
 day                      mon                      year

5. Visit code:                      s \_\_\_\_\_

6. Form & revision:                      r c 1

7. Study:                      CyNCh 8

### B. CyNCh participation

8. Date in item 4 of original CyNCh RG form:  
 \_\_\_\_\_  
 day                      mon                      year

### C. Administrative information

9. Clinical Coordinator PIN: \_\_\_\_\_

10. Clinical Coordinator signature:  
 \_\_\_\_\_

11. Date form reviewed:  
 \_\_\_\_\_  
 day                      mon                      year

**Purpose:** To explain CyNCh study drug prescription dose instructions and to record dispensing and return of study drug.

**When:** Visits rz, f04, f12, f24, f36, and f52. Use visit code “n” if study drug is dispensed or returned at a time other than study visits or if a second form is needed at a visit to document returned study drug.

**Administered by:** Clinical Coordinator, reviewed by Study Physician.

**Instructions:** CyNCh study drug will be taken orally in the morning and in the evening 30 minutes prior to meals. Children should be instructed to take 75 mg capsules according to their weight group:

≤65 kg at baseline	4 capsules twice daily	600 mg/day
>65-80 kg at baseline	5 capsules twice daily	750 mg/day
>80 kg at baseline	6 capsules twice daily	900 mg/day

This form documents dispensing of CyNCh study drug, return of unused study drug, return of empty study drug bottles, and is required at visit rz, f04, f12, f24, f36, and f52.

The children and their parents/ guardians should be queried about return of empty study drug bottles at all study visits. The clinical coordinator should count and record the number of capsules remaining in the study drug bottles each time a patient returns used study drug bottles to the clinical center. This form allows recording of the return of up to 12 bottles. If more than 12 bottles are returned, complete a second form (using visit code “n”) to record the information for the remaining bottles.

Study drug taken orally will be increased gradually during weeks 1-4 to the prescribed dose for the weight group and will remain fixed at that dose thereafter, regardless of weight changes, according to the following dosing schemes:

≤65 kg at baseline	Week 1:	1 capsule twice daily (150 mg/day)
	Week 2:	2 capsules twice daily (300 mg/day)
	Week 3:	3 capsules twice daily (450 mg/day)
	Weeks 4-52:	4 capsules twice daily (600 mg/day)
>65-80 kg at baseline	Week 1:	2 capsules twice daily (300 mg/day)
	Week 2:	3 capsules twice daily (450 mg/day)
	Week 3:	4 capsules twice daily (600 mg/day)
	Weeks 4-52:	5 capsules twice daily (750 mg/day)
>80 kg at baseline	Week 1:	3 capsules twice daily (450 mg/day)
	Week 2:	4 capsules twice daily (600 mg/day)
	Week 3:	5 capsules twice daily (750 mg/day)
	Weeks 4-52:	6 capsules twice daily (900 mg/day)

Study drug will be dispensed in bottles including 150 capsules of 75 mg strength as specified below:

Weight group	Visit	Number of Bottles/capsules		Comments
≤65 kg at baseline	rz	2	300	4 week supply + 2.8 weeks
	f04	4	600	8 week supply + 2.7 weeks
	f12	6	900	12 week supply + 4.1 weeks
	f24	6	900	12 week supply + 4.1 weeks
	f36	7	1,050	16 week supply + 2.8 weeks
>65 kg - ≤80 kg at baseline	rz	3	450	4 week supply + 3.6 weeks
	f04	5	750	8 week supply + 2.7 weeks
	f12	7	1,050	12 week supply + 3 weeks
	f24	7	1,050	12 week supply + 3 weeks
	f36	9	1,350	16 week supply + 3.3 weeks
>80 kg at baseline	rz	3	450	4 week supply + 2.4 weeks
	f04	6	900	8 week supply + 2.7 weeks
	f12	8	1,200	12 week supply + 2.3 weeks
	f24	8	1,200	12 week supply + 2.3 weeks
	f36	11	1,650	16 week supply + 3.6 weeks

**A. Center, patient, and visit identification**

- 1. Center ID: \_\_\_\_\_
- 2. Patient ID: \_\_\_\_\_
- 3. Patient code: \_\_\_\_\_
- 4. Date of visit:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year
- 5. Visit code: \_\_\_\_\_
- 6. Form & revision:  r   d   1
- 7. Study: CyNCh  8

**B. Study drug dispensing**

- 8. Is this a second form for returning additional drug bottles at this visit:
 

Yes	No
( * 1 )	( 2 )

**24.** ←

\* Key first form before this form.

- 9. Will study drug be dispensed today:
 

Yes	No
( 1 )	( 2 )

**11.** ←

- 10. Reason for not dispensing study drug (check all that apply)
  - a. Not a scheduled study drug dispensing visit: ( 1 )
  - b. Study physician-directed treatment interruption/termination: ( 1 )
  - c. Unwillingness of the patient to take study drug: ( 1 )
  - d. Other (specify): ( 1 )

\_\_\_\_\_ specify

**24.** ←

- 11. How many bottles were dispensed: \_\_\_\_\_ (01-11)

**Bottle tear-off label**

12. 

Affix label here

13. 

Affix label here

14. 

Affix label here

15. 

Affix label here

16. 

Affix label here

17. 

Affix label here

18. 

Affix label here



**IMPORTANT:** You must enter this form into the data system **within 48 hours** of dispensing study drug to the participant.

**E. Administrative information**

39. Study Physician PIN: \_\_\_\_\_

40. Study Physician signature:  
\_\_\_\_\_

41. Clinical Coordinator PIN: \_\_\_\_\_

42. Clinical Coordinator signature:  
\_\_\_\_\_

43. Date form reviewed:  
\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year





**16.** What describes the patient's Hispanic, Latino, or Latina origin best (*show the patient/guardian Flash Card #1 and ask the respondent to pick the subcategory that best describes the patient's Hispanic, Latino, or Latina origin; check only one*):

- Mexican ( 1 )
- Puerto Rican ( 2 )
- Cuban ( 3 )
- South or Central American ( 4 )
- Other Spanish culture or origin ( 5 )

\_\_\_\_\_ specify

**17.** Racial category (*show the patient/guardian Flash Card #2 and ask the respondent to pick the category or categories that describe the patient best; check all that apply*)

- a. American Indian or Alaska Native: ( 1 )
- b. Asian: ( 1 )
- c. Black, African American, Negro, or Haitian: ( 1 )
- d. Native Hawaiian or other Pacific Islander: ( 1 )
- e. White: ( 1 )
- f. Patient/guardian refused: ( 1 )

**18.** In what country was the patient born (*check only one*):

- Continental US (includes Alaska) or Hawaii ( 1 )
- Other, (*specify*): ( 2 )

\_\_\_\_\_ specify

**19.** Patient's current grade level in school (or home school) (*show the patient/guardian Flash Card #3 and ask the respondent to pick the category that describes the patient best; if summer time, report grade entering in the fall; check only one*):

- Grades 1 to 5 ( 1 )
- Grades 6-8 ( 2 )
- Grades 9-12 ( 3 )
- Other, (*specify*): ( 4 )

\_\_\_\_\_ specify

**20.** Combined annual income before taxes of all members of patient's household (*show guardian Flash Card #4 and ask respondent to pick the category that describes the patient's combined household income best; check only one*):

- Less than \$15,000 ( 1 )
- \$15,000 - \$29,999 ( 2 )
- \$30,000 - \$49,999 ( 3 )
- \$50,000 or more ( 4 )

**D. Previous registration in a NASH CRN study**

**21.** Has the patient ever been assigned an ID number in a NASH CRN study:

- Yes ( 1 )
- No ( 2 )

**25.** \_\_\_\_\_

**22.** In which NASH CRN studies has the patient previously been registered (*check all that apply*)

- a. NAFLD Database: ( 1 )
- b. TONIC: ( 1 )
- c. NAFLD Pediatric Database 2: ( 1 )
- d. Other, (*specify*): ( 1 )

\_\_\_\_\_ specify

**23.** ID Number previously assigned to patient (*record patient ID in item 2*):

\_\_\_\_\_

**24.** Code previously assigned to patient (*record patient code in item 3*):

\_\_\_\_\_

**26.** \_\_\_\_\_

**E. ID assignment**

(*If a STOP or ineligible condition was checked in section B, the patient is ineligible and a Patient ID should not be assigned. If the patient was previously registered in a NASH CRN study, a new ID number should not be assigned.*)

**25.** Place ID label below and record Patient ID in item 2 and patient code in item 3.

CCCC    #####,zzz
-------------------

**F. Administrative information**

26. Clinical Coordinator PIN: \_\_\_\_\_

27. Clinical Coordinator signature:  
\_\_\_\_\_

28. Date form reviewed:  
\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
day mon year

## RZ - Randomization Checks

**Purpose:** To check eligibility for CyNCh with respect to items not checked elsewhere on CyNCh screening forms and record reasons for ineligibility for patients found to be ineligible.

**When:** Visit rz.

**Administered by:** Study Physician and Clinical Coordinator.

**Respondent:** Patient and Clinical Coordinator.

**Instructions:** This form may be initiated at any time. If the patient proceeds to randomization, it must be reviewed on the day of randomization. Patients of childbearing potential must complete the randomization day pregnancy test at the clinic on the day of randomization. Height and weight must be obtained on the day of randomization.

If  is checked for any item, complete the entire form, but note that the patient may not participate in the CyNCh trial. If an item has not been assessed because the patient is ineligible, write "m" (missing) next to that item. This form must be keyed for each patient for whom form RG was completed.

## A. Center, patient, visit, and study identification

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Visit date (*date this form is initiated*):

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
                   day                  mon                  year

5. Visit code:                    r    z    \_\_\_\_\_

6. Form & revision:            r    z    2

7. Study:                            CyNCh 8

## B. Diabetes Status

8. In the judgment of the Study Physician and based on the patient's medical history and laboratory results, does the patient have diabetes:

Yes                    No  
 ( 1 )                   ( 2 )

**10.**

9. Is the patient's diabetes poorly controlled (HbA1c greater than 9% within the past 90 days):

Yes                    No  
 ( 1 )                   ( 2 )

**Elig**

## C. Alcohol use exclusions

10. Does the patient have a history of significant alcohol intake:

Yes                    No  
 ( 1 )                   ( 2 )

**Elig**

11. In the judgment of the Study Physician and/or Clinical Coordinator, can the patient reliably quantify his/her (*past and current*) alcohol intake:

Yes                    No  
 ( 1 )                   ( 2 )

**Elig**

12. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient's alcohol use since starting the screening process consistent with CyNCh eligibility criteria:

Yes                    No  
 ( 1 )                   ( 2 )

**Elig**

**D. Laboratory test exclusions**

**13. Hepatic Decompensation**

- a. Is the patient's serum albumin less than 3.2 g/dL:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- b. Is the patient's INR greater than 1.4:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- c. Is the patient's direct bilirubin greater than 1.0 mg/dL:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- d. Is the patient's total bilirubin greater than 3 mg/dL:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- e. Is the patient's hemoglobin less than 10 g/dL:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- f. Is the patient's white blood cell count less than 3,500 cells/mm<sup>3</sup>:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- g. Is the patient's platelet count less than 130,000 cells/mm<sup>3</sup>:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- h. Is the patient's neutrophil count less than 1,500 cells/mm<sup>3</sup>:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- i. Does the patient have a history of esophageal varices, ascites, or hepatic encephalopathy:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- j. Tests are outside time window and clinic chose not to repeat tests:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)

**E. Medication use exclusions**

- 14. Use of drugs associated with NAFLD for more than 2 consecutive weeks in the past 12 months:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- 15. Use of other known hepatotoxins within 90 days of liver biopsy or within 120 days of randomization:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- 16. Initiation of any new medication/vitamin or supplement to treat NAFLD/NASH in the time period following liver biopsy and prior to randomization:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)

**F. Other chronic liver disease exclusions**

- 17. Does the patient have ongoing autoimmune liver disease defined by liver histology:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- 18. Does the patient have Wilson's disease defined by ceruloplasmin below the lower limit of normal and liver histology consistent with Wilson's disease:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)
- 19. Does the patient have alpha-1-antitrypsin (A1AT) genotype ZZ or SZ:  
 Yes ( 1 )      No ( 2 )  
 Yes     No (Elig)

20. Does the patient have a transferrin saturation greater than 45% with histological evidence of iron overload (3+ or 4+ stainable iron on liver biopsy):

(Yes) (No)  
 (1)  (2) **Elig**

26. NAFLD activity score (NAS) less than 4:

(Yes) (No)  
 (1)  (2) **Elig**

21. Do any of the patient's assessments show evidence of other chronic liver disease

**H. Other medical exclusions**

a. Suspected or proven liver cancer:

27. History of bariatric surgery or plans to have bariatric surgery during the CyNCh trial:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

b. Hepatitis B (HBsAg):

28. Inflammatory bowel disease (if active) or prior resection of small intestine:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

c. Hepatitis C (HCV RNA or anti-HCV):

29. Active coagulopathy:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

d. Any other type of liver disease other than NASH that warrants exclusion from the trial:

30. Active seizure disorders:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

**G. Liver biopsy exclusions**

22. Inability to safely undergo a liver biopsy:

31. Gastrointestinal ulcers or other GI bleeding:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

23. Biopsy out of window and patient chose not to repeat:

32. Renal dysfunction with a creatinine clearance of less than 90 mL/min/m<sup>2</sup>:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

24. Biopsy inadequate for scoring and patient chose not to repeat:

33. History of total parenteral nutrition (TPN) use in year prior to screening:

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

25. Local pathologist did not find NAFLD:

34. History of heart disease (myocardial infarction, heart failure, unstable arrhythmias):

(Yes) (No)  
 (1)  (2) **Elig**

(Yes) (No)  
 (1)  (2) **Elig**

35. Does the patient have clinically significant depression (patient was hospitalized for suicidal ideations or suicide attempts within the past 12 months):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

36. History of active malignant disease requiring chemotherapy or radiation in the past 12 months prior to randomization:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

37. Currently enrolled in a clinical trial or received an investigational study drug in the past 180 days:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

38. Other conditions which, in the opinion of the investigator, would impede compliance or hinder completion of the study:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

**I. Birth control exclusion**

39. In the judgment of the Study Physician and/or Clinical Coordinator, is the patient (female of childbearing potential) willing to use effective birth control methods to avoid pregnancy during the 52 weeks of treatment (check "Yes" if patient is male or not of childbearing potential):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

**J. Check on ability to swallow study medication**

40. In your judgment (Study Physician/Clinical Coordinator), is the patient able to swallow the CyNCh study medications (if you are unsure, you may ask the patient to swallow an empty capsule):

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 **Elig**

**K. Eligibility check on day of randomization**

41. Was an ineligibility condition checked or an eligibility not ascertained in items 9-40:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 50.

*\*Key forms RG, AD, BH, BP, CG, HF, LP, LR, LS, MR, ND, PE, PQ/PR, PW/PY, and SD. Run the Randomization Task on your clinic data system.*

42. Were any stops or ineligible conditions other than "missing form RZ" identified by the Randomization Task:

Yes ( 1 )  
 50.   
 No ( 2 )  
 Task not run because patient is known to be ineligible ( 3 )  
 50.

43. Based on today's physical examination, does the patient feel well today:

( Yes ) ( No )  
 ( 1 ) ( \* 2 )  
 **STOP**

*\*Defer randomization until the patient feels well; when the patient returns to attempt randomization again, review all items on this form and update each item as needed.*

44. Is the patient male:

( Yes ) ( No )  
 ( 1 ) ( 2 )  
 48.

45. Is the patient of childbearing potential:


( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 48.

*\*Administer pregnancy test.*


46. Is the patient pregnant (positive pregnancy test on the day of randomization):

( Yes ) ( No )  
 ( \* 1 ) ( 2 )  
 **Elig**

*\*Go to item 50.*


47. Is the patient currently breast feeding  
 (Yes  1) (No  2)  


\*Go to item 50.

48. In the Study Physician's judgment, is there any reason to exclude the patient from randomization:  
 (Yes  1) (No  2)  


\*If Yes, specify reason and then go to item 50:

\_\_\_\_\_ specify reason

49. Does the patient still consent to randomization (you should ask the patient to orally affirm his/her consent):  
 (Yes  1) (No  2)  


\*Go to item 51 and complete this form. Then key this form and run the Randomization Task on your clinic data system to randomize the patient.

†Complete items 50 and 53-57 and key the form. The form must be keyed to document the reasons for ineligibility for CyNCh.

**L. Reasons for ineligibility for ineligible patients**  
 Note: Complete this section for ineligible patients only.

50. Reason for ineligibility (check all that apply)  
 a. Reason covered in items 9-49: ( \* 1)  
 b. Other reason not covered on this form (specify): ( \* 1)  
 \_\_\_\_\_ specify

\*Go to item 53

**M. Physical Examination (must be done on the day of randomization)**

51. Height (shoes off)  
 a. 1st measurement: \_\_\_\_\_ ● \_\_\_\_\_  
 b. 2nd measurement: \_\_\_\_\_ ● \_\_\_\_\_  
 c. Units:  
 Inches ( 1)  
 Centimeters ( 2)

52. Weight (With shoes off, weight should be obtained in pounds and kilograms using the scale. Do not calculate the weight conversions.)  
 a. Weight in pounds: \_\_\_\_\_ ● \_\_\_\_\_ lbs  
 b. Weight in kilograms: \_\_\_\_\_ ● \_\_\_\_\_ kgs  
 c. Weight group:  
 Less than or equal to 65kg ( 1)  
 Greater than 65 - 80kg ( 2)  
 Greater than 80kg ( 3)

**N. Administrative information**

53. Study Physician PIN: \_\_\_\_\_  
 54. Study Physician signature: \_\_\_\_\_  
 55. Clinical Coordinator PIN: \_\_\_\_\_  
 56. Clinical Coordinator signature: \_\_\_\_\_

57. Date form reviewed  
 (Note: This form must be reviewed on the day of randomization; if it was keyed prior to the randomization day, update it, re-review it on the day of randomization, and key the revised date of review.):  
 \_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year







24. Which pathology department did these slides come from:

NASH CRN clinical center's pathology department ( 1 )

Other, (specify): 25. ( 2 )

\_\_\_\_\_ name

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ address

\_\_\_\_\_ phone

*Note: this is the CyNCh trial record of the source of the slides i.e., where the clinical center should send the slides when they are received back from the DCC.*

**G. Administrative information**

25. Clinical Coordinator PIN: \_\_\_\_\_

26. Clinical Coordinator signature: \_\_\_\_\_

27. Date form reviewed: \_\_\_\_\_  
day mon year

**Purpose:** To report serious adverse events recorded on the Adverse Event Report (AE) form that satisfy the FDA expedited FDA Safety Report requirements outlined in the CyNCh Trial protocol. In order to satisfy FDA expedited *IND Safety Report* requirements the event must be **SERIOUS**, **UNEXPECTED**, **AND** have a **REASONABLE POSSIBILITY** of being caused by CyNCh study drug, as defined by Title 21 Code of Federal Regulations Part 312.32 *IND Safety Reporting*:

*Serious adverse event or serious suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "**SERIOUS**" if, in the view of either the investigator or sponsor, it results in any of the following outcomes: death, a life threatening adverse event, inpatient hospitalization or prolongation of existing hospitalization, a persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions, or a congenital anomaly/birth defect. Other medical events may be considered serious when, based upon appropriate medical judgment, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition.

*Suspected adverse reaction* means any adverse event for which there is a reasonable possibility that the drug caused the adverse event. For the purposes of IND safety reporting, "**REASONABLE POSSIBILITY**" means there is evidence to suggest a causal relationship between the drug and the adverse event. Suspected adverse reaction implies a lesser degree of certainty about causality than adverse reaction, which means any adverse event caused by a drug.

*Unexpected adverse event or unexpected suspected adverse reaction.* An adverse event or suspected adverse reaction is considered "**UNEXPECTED**" if it is not listed in the cystemine bitartrate investigator's brochure or is not listed at the specificity or severity that has been observed for your patient.

**When:** The SR form should be used only for reporting a serious and unexpected adverse event which meets the IND Safety Report criteria as stated above, or when a followup report is needed for a previously completed SR form. When the serious adverse event does not meet the expedited IND Safety Report criteria, use the Advers Event Report (AE) form to report the event.

**Completed by:** Study Physician and Clinical Coordinator.

**Instructions:** Complete and key this form **within 2 business days**. The short name (item 24) and the severity grade (item 25) are to be obtained from the NCIs Common Terminology Criteria for Adverse Events v3.0 (CTCAE). The CTCAE document is available at [www.nashcrn.com](http://www.nashcrn.com). (Click on Studies then click on CyNCh). Report the serious adverse event to your IRB per local guidelines. Send the Data Coordinating Center the following:

- 1) A copy of this SR form and corresponding AE form
- 2) A narrative description of the event that includes all of the information provided on the SR and AE forms and a justification of why the event is serious, unexpected and has reasonable possibility of being caused by CyNCh study drug (see CyNCh SOP I, section 6.16).
- 3) A copy of your report to your IRB, if applicable

The Data Coordinating Center will submit a preliminary copy of the report to NIDDK (Sponsor) for further review within 3 business days. If NIDDK staff determines that an expedited IND Safety Report is required, a final report will be submitted to the FDA (within 15 days). Intercept Pharmaceuticals (manufacturer of study drug), the DSMB, and Steering Committee will be notified of all serious adverse events requiring an expedited IND safety report within 7 days of keying the SR form. For more information, see CyNCh SOP I, section 6.16.

**Followup report:** A followup report should be filed (use this form) when the adverse event is resolved or if there has been a significant change in the patients condition or in the physicians judgment about the event since the previous report was filed.

**A. Center, patient and visit identification**

1. Center ID: \_\_\_\_\_

2. Patient ID: \_\_\_\_\_

3. Patient code: \_\_\_\_\_

4. Date of report:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

5. Visit code: \_\_\_\_\_  
If report not associated with a visit, fill in "n."

6. Form & revision:   s     r     1  

7. Study: CyNCh   8

**B. Participant information**

8. Date randomized in CyNCh:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

9. Gender:  
 Male ( 1 )  
 Female ( 2 )

10. Age at time of adverse event: \_\_\_\_\_  
 years

**C. Determination of an serious adverse report**

11. Is there a **reasonable possibility** that the CyNCh study drug caused the adverse event:  
 Definitely yes ( 1 )  
 Probably yes ( 2 )  
 Possibly yes ( 3 )  
 Probably no ( 4 )  
 Definitely no ( 5 )

15.

12. Is this adverse event **serious**:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

15.

*If Yes, then select all the reasons that apply:*

- a. Severity Grade 3, 4 or 5: ( 1 )
- b. Required inpatient hospitalization or prolonged existing hospitalization: ( 1 )
- c. Persistent or significant incapacity or disruption of ability to conduct normal life functions: ( 1 )
- d. Jeopardized patient and required medical or surgical intervention: ( 1 )
- e. Congenital anomaly or birth defect: ( 1 )

13. Is this adverse event **unexpected**:  
 ( Yes ) ( No )  
 ( 1 ) ( 2 )

15.

14. Reason the adverse event was unexpected:  
 Not listed in the cysteamine bitartrate investigator brochure ( 1 )  
 Listed in the cysteamine bitartrate investigator's brochure, but not at the specificity or severity that has been observed ( 2 )  
 Listed in the cysteamine bitartrate investigator's brochure as anticipated from the pharmacological properties of the study drug, but is not specifically mentioned as occurring with previous experience of cysteamine bitartrate ( 3 )

15. Did you select "Yes" for items 11, 12, and 13:  
 Yes ( \* 1 ) No ( † 2 )

*\*NIDDK will determine if an expedited IND Safety Report will be submitted to the FDA within 15 calendar days.*

*†Use CyNCh forms AE form to report adverse events that are not serious, not associated with the CyNCh study drug, or are expected. Do not key this form.*

**D. Serious adverse event description**

16. Is this the first report or a followup report for this serious adverse event:  
 First report ( 1 )  
 Followup report ( 2 )

17. Date of serious adverse event onset:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

18. Date serious adverse event was reported to clinical center:  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 day mon year

19. Describe the serious adverse event:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

20. Medications or supplements other than CyNCh study drug in use at the time of serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Specify tests/treatments and comorbidities:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. Was an unscheduled liver biopsy performed:

( <sup>Yes</sup> \* ) ( <sup>No</sup> )  
( <sub>1</sub> ) ( <sub>2</sub> )

*\*Attach a copy of the institutional pathology report to the SR form.*

23. Did the serious adverse event result in significant sequelae:

( <sup>Yes</sup> ) ( <sup>No</sup> )  
( <sub>1</sub> ) ( <sub>2</sub> )

Specify:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Short name for serious adverse event (short names for AEs are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Studies and then click on CyNCh):

\_\_\_\_\_  
\_\_\_\_\_

25. Severity grade (severity grades are listed in the CTCAE v3.0 document available at www.nashcrn.com; click on Studies and then click on CyNCh):

Grade 3 - Severe ( <sub>1</sub> )  
Grade 4 - Life threatening or disabling ( <sub>2</sub> )  
Grade 5 - Death ( \* <sub>3</sub> )

*\*Complete and key the Death Report (DR) form.*

26. Did the serious adverse event result in any of the following (check all that apply)

a. Emergency department/urgent care visit: ( <sub>1</sub> )  
b. Hospital admission or prolonged hospital stay: ( <sub>1</sub> )  
c. Significant or persistent disability: ( <sub>1</sub> )  
d. Congenital anomaly or birth defect: ( <sub>1</sub> )  
e. Death (complete and key CyNCh DR form): ( <sub>1</sub> )  
f. Other significant hazard or harm: ( <sub>1</sub> )

\_\_\_\_\_  
\_\_\_\_\_  
g. None of the above ( <sub>1</sub> )

27. Current status of serious adverse event (check only one):

Resolved ( <sub>1</sub> )  
Active ( <sub>2</sub> )  
Unknown ( <sub>3</sub> )  
29. \_\_\_\_\_  
29. \_\_\_\_\_

28. Date resolved:

\_\_\_\_\_ day \_\_\_\_\_ mon \_\_\_\_\_ year

29. Additional comments on serious adverse event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Transfer Notification

**Purpose:** To record a transfer from one center to another center.

**When:** Upon transferring to the enrolling center and prior to the first visit at the adopting center.

**By whom:** Clinical coordinator of each center (enrolling center: sections A-C, adopting center: sections D- E).

**Instruction: For enrolling center:** When patient notifies enrolling center of upcoming transfer, the enrolling clinical coordinator should (1) complete Sections A-C of the Transfer Notification (TN Form), (2) send the TN form to the adopting center, with a copy of the most recently completed FH, LR, RD, and PE/PF forms, (3) send the labels for cryovials and slides and a copy of the visit window schedule to the adopting center. **For adopting center:** Prior to the patient coming to the adopting center, the adopting clinical coordinator should: (1) complete Sections D-E of the TN form, (2) Fax the TN form to the DCC (Fax: 410-955-0543). The DCC will key the form.

**A. Enrolling center and patient identification**

1. Center ID: \_\_\_\_\_
2. Patient ID: \_\_\_\_\_
3. Patient code: \_\_\_\_\_
4. Date of notification of intent to transfer:  
 \_\_\_\_\_  
 day mon year
5. Visit code: n \_\_\_\_\_
6. Form & revision: t n 1
7. Study: CyNCh 8

**B. Last follow-up visit information**

8. Date of last follow-up visit:  
 \_\_\_\_\_  
 day mon year
9. Visit ID code of last completed follow-up visit:  
f \_\_\_\_\_
10. Have cryovial and slide labels been sent to the adopting center:  
 Yes ( 1 ) No ( \* 2 )

*\* Send the cryovial and slide labels to the adopting center (using a package tracking service).*

**C. Enrolling center administrative information**

11. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
12. Clinical coordinator ID: \_\_\_\_\_
13. Clinical coordinator signature:  
 \_\_\_\_\_

**D. Adopting center, patient and visit identification**

14. Adopting center ID: \_\_\_\_\_
15. Patient ID (*must be same as in Section A*):  
 \_\_\_\_\_
16. Patient code: (*must be same as in Section A*):  
 \_\_\_\_\_
17. Expected date of first follow-up visit at adopting center:  
 \_\_\_\_\_  
 day mon year
18. Visit ID code for expected first follow-up visit at adopting center:  
f \_\_\_\_\_

*Reminder: Please follow your local IRB requirements regarding consent and HIPAA statements.*

**E. Adopting center administrative information**

19. Date form reviewed:  
 \_\_\_\_\_  
 day mon year
20. Clinical coordinator ID: \_\_\_\_\_
21. Clinical coordinator signature:  
 \_\_\_\_\_

*Fax form to the DCC. The DCC will key the TN form.*