

Site ID: Subject ID: Reviewed by (certification no.): **For coordinator use only.**Review date:  /  / **Teen-LABS (PATH2) Liver Pathology Evaluation****Form completion date:**  /  / 20 (mm/dd/yyyy) **Completed by (certification no.):** Please PRINT NEATLY and complete this form in blue or black INK. Mark response boxes like this: **SECTION 1: NASH CRN FEATURE SCORING SYSTEM**

1. Steatosis grade:
  - 0 (0%)
  - 0 trace (<5%)
  - 1 (5-33%)
  - 2 (33-67%)
  - 3 (>67%)
2. Steatosis location:
  - Predominantly zone 3
  - Predominantly zone 1
  - Azonal
  - Panacinar
3. Microvesicular steatosis:
  - 0 Not present in contiguous patches
  - 1 Present in contiguous patches
4. Fibrosis stage:
  - 0 (None)
  - 1 (Periportal OR Perisinusoidal)
 

↳ 4.1 Specify:  1A (Mild perisinusoidal - Trichrome only)  
 1B (Moderate perisinusoidal only)  
 1C (Periportal only)
  - 2 (Periportal AND Perisinusoidal)
  - 3 (Bridging fibrosis)
  - 4 (Cirrhosis)
5. Lobular inflammation:
  - 0 None
  - 1 Mild (<2 foci per 20x high power field)
  - 2 Moderate (2-4 foci per 20x field)
  - 3 Marked (>4 foci per 20x field)
6. Microgranulomas:
  - 0 Absent
  - 1 Present
7. Lipogranulomas:
  - 0 Absent
  - 1 Present
8. Portal inflammation:
  - 0 None
  - 1 No more than mild
  - 2 More than mild
9. Ballooning hepatocellular injury:
  - 0 None
  - 1 Few, less characteristic
  - 2 Many, prominent
10. Acidophil bodies:
  - 0 None
  - 1 More than rare
11. Pigmented macrophages:
  - 0 None to rare
  - 1 More than rare
12. Megamitochondria:
  - 0 None to rare
  - 1 More than rare
13. Mallory bodies:
  - 0 None to rare
  - 1 More than rare
14. Glycogen nuclei:
  - 0 Not present in contiguous patches
  - 1 Present in contiguous patches
15. NASH Activity Score (0-8): 

*(Calculated, sum of steatosis grade [with trace steatosis counted as a 0], lobular inflammation and ballooning injury -- items 1, 5, and 9)*

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**Teen-LABS (PATH2) Liver Pathology Evaluation****SECTION 2: MODIFIED ISHAK HAI**

1. Piecemeal necrosis:
  - 0 Absent
  - 1 Mild
  - 2 Mild/moderate
  - 3 Moderate
  - 4 Severe
2. Confluent necrosis:
  - 0 Absent
  - 1 Focal confluent necrosis
  - 2 Zone 3 necrosis in some areas
  - 3 Zone 3 in most areas
  - 4 Zone 3 necrosis + occasional portal-central bridging
  - 5 Zone 3 necrosis + multiple portal-central bridging
  - 6 Panacinar or multiacinar necrosis
3. Focal (spotty) necrosis:
  - 0 Absent
  - 1 One focus or less per 10x objective
  - 2 Two to four foci per 10x objective
  - 3 Five to ten foci per 10x objective
  - 4 More than ten foci per 10x objective
4. Portal inflammation:
  - 0 None
  - 1 Mild, some or all portal areas
  - 2 Moderate, some or all portal areas
  - 3 Moderate/marked, some or all portal areas
  - 4 Marked, all portal areas
5. Fibrosis:
  - 0 No fibrosis
  - 1 Fibrous expansion of some portal areas
  - 2 Fibrous expansion of most portal areas
  - 3 Occasional portal to portal bridging
  - 4 Marked bridging
  - 5 Marked bridging with occasional nodules
  - 6 Cirrhosis, probable or definite

**SECTION 3: IRON ASSESSMENT (same as planned for NASH CRN, only if iron stain available)**

1. Hepatocellular Iron Grade:
  - 0 Absent or barely discernible, 40x
  - 1 Barely discernible granules, 20x
  - 2 Discrete granules resolved, 10x
  - 3 Discrete granules resolved, 4x
  - 4 Masses visible by naked eye
2. Hepatocellular Iron Distribution:
  - Periportal
  - Periportal and midzonal
  - Panacinar
  - Zone 3 / Nonzonal
3. Sinusoidal Lining Cell Iron:
  - 0 None
  - 1 Mild
  - 2 More than mild
4. Sinusoidal Lining Cell Iron Distribution:
  - Large vessel endothelium only
  - Portal/fibrous bands only (beyond 1st category)
  - Intraparenchymal only
  - Portal and intraparenchymal

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### SECTION 4: DIAGNOSTIC ASSESSMENT

1. Steatohepatitis:
  - Not steatohepatitis
  - Possible/borderline steatohepatitis (Type 1, typical zone 3 pattern)
  - Possible/borderline steatohepatitis (Type 2, zone 1 pattern)
  - Definite steatohepatitis
  
2. Chronic Hepatitis:
  - Not chronic hepatitis
  - Possible chronic hepatitis
  - Definite chronic hepatitis

### SECTION 5: OTHER NOTES

1. Are there other notes?
  - No
  - Yes
  
2. If yes, record other notes:

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