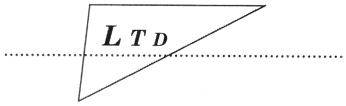
PP



NIDDK

Liver Transplantation Database

POST-TRANSPLANT – PATHOLOGY

HISTOLOGY FINDINGS

03/29/1999

FOR DATA CENTER USE ONLY

COMPLETION LOG

Data Collector ID _____ - _____
Center Initials

DATE

Data Collection ____/____/____

Data Entry ____/____/____

Sysid _____

Verification ____/_____/___

Cleaned ____/____/____

Transfer ____/____/____
MM DD YY

FORM KEYS

Patient ID _____ - _____

Date of Specimen ____/____/____
MM DD YY

SURGICAL # _____-_____

POST-TRANSPLANT - PATHOLOGY
HISTOLOGY FINDINGS
NIDDK Liver Transplantation Database

PP

PATIENT ID _____-_____

DATE OF SPECIMEN _____/_____/_____
MM DD YY

I. SOURCE OF SPECIMEN *(check one):*

1. Needle biopsy __ 2. Wedge biopsy __ 3. Failed allograft __ 4. Autopsy __

IF BIOPSY, *check one:*

1. Protocol __ 2. Complication __

II. HISTOLOGICAL EVALUATION

1. Is specimen considered adequate? Yes __ No __

2. PORTAL TRACT *(check one under each category)*

2.1 Overall inflammation intensity: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe __

2.1.1 **TYPE *(rank in order of prevalence, #1 being most important, #2 as next most important, etc.):***

1. Neutro. __ 2. Lympho. __ 3. Plasma cells __ 4. Eosino. __ 5. Macro. __ NA __

2.2 Bile duct inflammation/damage: Yes __ No __

2.3 Bile duct loss: Yes __ No __ Not evaluable __

IF YES 1. Number of portal tracts without ducts ___

2. Total number of portal tracts ___

2.4 Ductular proliferation (in any portal tract): Yes __ No __

2.5 Atrophy/pyknosis (in a majority of ducts): Yes __ No __

2.6 Florid duct lesion: Yes __ No __

2.7 Fibro-obliterative duct lesion: Yes __ No __

2.8 Granulomas: Yes __ No __

3. OBLITERATIVE ARTERIOPATHY: Yes __ No __

4. FIBROSIS: *(check one under each category)*

4.1 Portal: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe (Bridging) __

4.2 Central: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe (Bridging) __

4.3 Architect. Distortion: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe __

5. NECROSIS *(check one under each category):*

5.1 Interface activity: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe __

5.2 Central inflammation/necrosis: Yes __ No __

6. CHOLESTASIS: Yes __ No __

7. FAT:

7.1 Severity: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe __

7.2 Type: 1. Micro __ 2. Macro __ 3. Mixed __ NA __

8. LOBULAR NECRO-INFLAMMATORY ACTIVITY:

8.1 Severity: 1. None __ 2. Mild __ 3. Moderate __ 4. Severe __

8.2 Location: 1. Random/Focal __ 2. Diffuse __ 3. Perivenular __ 4. Periportal __ NA __

9. MALLORY HYALINE: Yes __ No __

9.1 Location: 1. Pericentral __ 2. Other, specify _____

III. PATHOLOGIC DIAGNOSIS(ES) – based on Histological Evaluation

Rank all that apply in order of importance, #1 being most important, #2 as next most important, etc.

POST-TRANSPLANT - PATHOLOGY
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1. BILIARY TRACT (probably not related to rejection)

__ 1.1 Consistent with duct obstruction/cholangitis

__ 1.2 Other, specify _____

2. ISCHEMIC INJURY

__ 2.1 Ischemic injury present

IF PRESENT: Was there an infarct? Yes __ No __

__ 2.2 Preservation injury

3. HEPATITIS

__ 3.1 Viral: 1. Acute __ 2. Chronic __

TYPE: 1. Adenovirus __ 2. CMV __ 3. EBV __ 4. HSV __ 5. HBV __

(check all that apply) 6. HCV __ 7. Other, specify _____

IF CHRONIC, *provide scores for modified HAI grading and staging (see codes and score on opposite page):*

1. Grade: 1. Piecemeal necrosis ____ 2. Confluent necrosis ____ 3. Focal lytic necrosis ____
4. Portal inflammation ____

2. Stage ____

__ 3.2 Non-viral: 1. Possibly/probably autoimmune __ 2. Possibly/probably drug induced __
3. Idiopathic __ 4. Other, specify _____

__ 3.3 Unknown

4. REJECTION

__ 4.1 Acute cellular rejection **GRADE:** 1. Indeterminate __ 2. Mild __ 3. Moderate __ 4. Severe __

__ 4.2 Resolving acute cellular rejection, under treatment

__ 4.3 Consistent with chronic rejection ***(check all that apply):***

__ 1. Early (duct atrophy/pyknosis without duct loss or with duct loss < 50% of the triads)

__ 2. Late (consistent with vanishing bile duct syndrome: if duct loss ≥ 50%)

__ 3. Vasculopathic (obliterative arteriopathy)

5. OTHER

__ 5.1 Minimal changes

__ 5.2 Possible drug reaction

__ 5.3 Steatohepatitis, ETOH

__ 5.4 Steatohepatitis, non-ETOH

__ 5.5 Other, specify _____

IV. IS PATHOLOGIC DIAGNOSIS PRIMARILY RECURRENT DISEASE? Yes __ No __

IF YES 1. Definite __ 2. Probable __ 3. Equivocal/unsure __

Provide liver disease code(s) from back of page:

Code(s): _____ _____ _____

Specify as required: _____

V. COMMENTS: Yes __ No __

IF YES

VI. **~~PATHOLOGIST ID:~~** _____ - _____
2 Digit Center Code | 3 letter Initials

DATA ENTRY USE ONLY

Data Entry
____/____/____

Sysid _____

Verification
____/____/____

Cleaned

LIVER DISEASE DIAGNOSIS CODES

1. Acute hepatitis A
2. Acute hepatitis B
3. Acute hepatitis B and D
4. Acute hepatitis C
5. Acute hepatitis other (specify: e.g. drug or toxin, presumed viral, CMV, EBV, etc.)
6. Acute hepatitis of unknown cause
7. Alcoholic liver disease (Laennec's cirrhosis)
8. Alpha-1-antitrypsin deficiency
9. Benign tumor (specify: e.g. adenoma)
10. Biliary atresia
11. Budd-Chiari syndrome
12. Chronic cholestatic syndrome of childhood (specify: e.g. Bylers, Alagilles, non-syndromatic paucity of bile ducts, etc.)
13. Chronic autoimmune (lupoid) hepatitis/cirrhosis
14. Chronic hepatitis B/cirrhosis
15. Chronic hepatitis B and D/cirrhosis
16. Chronic hepatitis C/cirrhosis
17. Chronic hepatitis/cirrhosis other (specify: e.g. drug or toxin, presumed viral, etc.)
18. Chronic hepatitis/cirrhosis of unknown cause
19. Congenital biliary and fibrocystic disease (specify: e.g. congenital hepatic fibrosis, Caroli's disease, polycystic liver disease, choledochal cyst, etc.)
20. Glycogen storage disease (specify type)
21. Hemochromatosis
22. Homozygous hypercholesterolemia
23. Hyperalimentation-induced liver disease
24. Malignancy, cholangiocarcinoma
25. Malignancy, fibrolamellar hepatocellular carcinoma
26. Malignancy, hepatocellular carcinoma
27. Malignancy, other (specify: e.g. angiosarcoma, hemangioendothelioma, hepatoblastoma, etc.)
28. Metastatic malignancy (specify: e.g. carcinoma of breast, colon, lung, etc.)
29. Neonatal or pediatric post-hepatitic cirrhosis
30. Primary biliary cirrhosis
31. Primary sclerosing cholangitis
32. Secondary biliary cirrhosis (specify cause: e.g. gall stones, stricture, etc.)
33. Tyrosinemia
34. Wilson's disease
35. Other (specify: e.g. trauma, cystic fibrosis, etc.)