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| **SUPPLEMENT 1.** Histological changes of 16 cases with SSC-CIP | | | | | | | | | | | | | |
| **No.** | **Sex** | **Age** | **Liver**  **Histology** | |  | Time  first signs  of chole-  stasis  to  histology  (days) |  | | | | | | |
|  | Portal tracts | Bile ducts | | | | Medium/  or large hilar  bile ducts |
| **biopsy** | **explant** | Fibrosis/ Cirrhosis | Edema/  Inflammation | Destruction  of bile ducts | Proliferation (ductular reaction) | Periductal fibrosis | Canalicular cholestasis |  |
| 1 | F | 63 | - | + | Liver explant | 189 | ppF | +/Inflammation |  | + | + | + | Medium-sized bile ducts with focal necrosis of epithelium and periductal fibrosis  Large hilar bile ducts with complete necrosis of epithelium |
| 2 | M | 25 | + | - | Liver biopsy | 351 | ppF | +/Edema  +/Inflammation | + | + |  |  |  |
| 3 | M | 43 | - | - | - |  | - |  |  |  |  |  |  |
| 4 | M | 26 | - | - | - |  | - |  |  |  |  |  |  |
| 5 | M | 49 | + | + | Liver biopsy  +  Liver explant | 86 | Biopsy  ppF |  |  |  |  |  |  |
| 961 | Liver explant:  LC | +/Inflammation | +  Mild alteration  of bile duct epithelium | +  Numerous  bile ductular proliferations | + | + |
| 6 | M | 33 | - | + | Liver explant | 1718 | LC | +/Inflammation |  | + | + |  |  |
| 7 | M | 53 | - | + | Liver explant | 1402 | LC |  |  | + |  |  |  |
| 8 | M | 57 | - | - |  |  | - |  |  |  |  |  |  |
| 9 | M | 18 | - | - | e.l. |  | - |  |  |  |  |  |  |
| 10 | F | 46 | - | + | Liver explant | 1465 | LC | +/Inflammation | +  Vanishing  bile duct syndrome |  |  |  |  |
| 11 | F | 60 | + | + | Liver biopsy  +  Liver  explant | 126 | Biopsy:  Portal fibrosis | +/Inflammation |  | +  Bile ductular proliferation |  |  |  |
| 237 | Liver explant:  ppF | +/Inflammation predominantly lymphocytes | +  Ductopenia | +  Ductular reaction | Large hilar bile ducts with focal necrosis  of epithelium  +  Infiltration  of epithelium  with leucocytes  +  periductal fibrosis |
| 12 | M | 63 | + | + | Liver biopsy  +  Liver explant | 29 | Biopsy:  Portal fibrosis | +/Inflammation |  | +  Numerous  bile ductular proliferations |  | + |  |
| 967 | Liver explant:  LC |  | +  Numerous  bile ductular proliferations | + |
| 13 | F | 47 | + | + | Liver biopsy  +  Liver explant | 118 |  | +/Inflammation |  |  |  |  |  |
| 1269 | Liver explant:  LC |  |
| 14 | M | 57 | - | - |  |  | - |  |  |  |  |  |  |
| 15 | M | 34 | + | + | Liver biopsy  +  Liver explant | 22 |  | +/Edema  +/Inflammation | +  Necrosis of bile duct epithelium |  |  | + |  |
| 1001 | Biopsy:  Portal fibrosis |
| 1476 | LC | +/Inflammation | +  Portal tracts with total loss of bile ducts | +  Bile ductular proliferations |
| 16 | F | 60 | - | - | Autopsy |  | LC |  |  | +  Bile ductular proliferations |  |  |  |
| Age in years, M= male, F= female, ppF=porto-portalis bridging fibrosis, LC= Liver cirrhosis | | | | | | | | | | | | | |