Supplemental Table Non-BA patient cohort

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| **Diagnosis (n)** | **Ages (years)** | **Ishak Fibrosis score**  **(0 – 6)\*** | **LOXL2**  **Intensity\*** | **LOXL2**  **Bile Duct\*** |
| Focal nodular hyperplasia (1) | 13 | 4 | 2 | 3 |
| Hepatoblastoma (4) | 0.1, 1.1, 1.2, 2 | 5; 0; 1; 1 | 1.0, 1.6, 0.6, 0.8 | 3.0, 2.6. 0.6, 1.0 |
| Veno-occlusive disease (1) | 6 | 2 | 2 | 3 |
| Idiopathic portal hypertension (1) | 17 | 2 | 1.6 | 3 |
| Hepatocellular carcinoma (2) | 13,18 | 5 5 | 1, 2 | 2.8, 3 |
| Gunshot wound (1) | 20 | 3 | 2 | 3 |
| Tyrosinemia (1) | 9 | 5 | 2 | 3 |
| Fatty liver disease (1) | 18 | 1 | 1.8 | 2.8 |
| Budd Chiari (1) | 20 | 5 | 0.4 | 0.4 |
| Metastatic leiomyosarcoma (1) | 20 | 1 | 2, | 3 |
| Common bile duct stricture(1) | 14 | 4 | 0.2 | 0.2 |
| Nonspecific neonatal hepatitis (3) | 0.05, 0.1, 0.2 | 4, 3, 5 | 0, 0.2, 0 | 4, 3,0 |
| Alpha-1-antitrypsin deficiency | 1 | 6 | 2 | 3 |
| Nonspecific liver injury | 0.8 | 1 | 0.2 | 0.4 |

\*when there are multiple values in a row they are shown in order from youngest to oldest