**Supplementary Table 1. Clinical characteristics of patients**

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| **Clinical Features** | **Control patients** | **Obstructive cholestatic patients** |
| Total samples | 14 | 14 |
| ALT (IU/L) | 16.6 ± 9.1 | 161.4 ± 64.1\*\*\*\* |
| AST (IU/L) | 20.1 ± 7.4 | 135.4 ± 63.0\*\*\*\* |
| ALP (IU/L) | 80.6 ± 23.9 | 423.3 ± 201.3\*\*\*\* |
| GGT (IU/L) | 19.0 ± 11.4 | 761.4 ± 436.6\*\*\*\* |
| TBA (µmol/L) | 2.9 ± 1.6 | 120.7 ± 103.3\*\*\*\* |
| TBIL (µmol/L) | 13.7 ± 7.0 | 224.1 ± 130.1\*\*\*\* |
| DBIL (µmol/L) | 3.4 ± 2.7 | 119.2 ± 69.1\*\*\*\* |
| IBIL (µmol/L) | 10.3 ± 4.9 | 104.9 ± 62.2\*\*\*\* |

Values are means ± SD. ALT, alanine aminotransferase; AST, aspartate aminotransferase; ALP, alkaline phosphatase; GGT, gamma-glutamyl transferase; TBA, total bile salts; TBIL, total bilirubin; DBIL, direct bilirubin; IBIL, indirect bilirubin. \*\*\*\**p* < 0.0001.