**Supplementary Table 1 Demographic, serological, and biochemical parameters characteristics of study subjects**

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| --- | --- | --- | --- | --- | --- |
| Parameters | Healthy subjects（N=24） | Treatment-naïve CHB patients （N=97） | Patients with spontaneous HBsAg loss  （N=18） | Patients with treatment-related HBsAg loss (N=31） | *P* value |
| Gender male(%) | 9 (36.0%) | 59 (60.8%) | 9 (50.0%) | 26 (83.9%) | 0.002 |
| Age (year) | 27.2±0.78 | 34.4±1.08 | 34.1±1.87 | 39.9±1.94 | <0.001 |
| HBsAg (log10 IU/mL) | 0.0±0.00 | 4.25±0.25 | 0.0±0.00 | 0.0±0.00 | <0.001 |
| HBeAg positive/negative | 0/24 | 65/32 | 0/18 | 0/31 |  |
| HBV DNA (log10 IU/mL) | 0.0±0.00 | 7.87±0.59 | 0.0±0.00 | 0.0±0.00 | <0.001 |
| ALT (IU/L) | 17.7±1.47 | 189.5±1.37 | 23.1±2.45 | 35.5±7.26 | <0.001 |
| AST (IU/L) | 19.0±0.82 | 111.2±8.80 | 22.6±1.75 | 31.0±5.66 | <0.001 |
| TBIL (μmoL/L) | 15.8±1.40 | 17.5±0.75 | 14.8±1.02 | 15.2±1.06 | <0.001 |
| DBIL (μmoL/L) | 1.7±0.21 | 3.2±0.27 | 1.7±0.19 | 2.3±0.23 | <0.001 |
| Platelet count (109/L) | 225.6±10.78 | 185.6±5.48 | 230.6±12.44 | 190.3±8.55 | <0.001 |
| HBV genotype B/C | NA | 35/62 | NA | NA |  |

CHB, chronic hepatitis B; HBeAg, hepatitis B e antigen; HBsAg, hepatitis B surface antigen; HBV, hepatitis B virus; ALT, alanine aminotransferase; AST, Aspartate aminotransferase; TBIL, total bilirubin; DBIL, direct bilirubin.