**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.