**Supplementary Table 2 Characteristics of untreated patients with CHB in deriving cohort.**

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| **Variable** | **F0-F1 (n=164)** | **F2-F4 (n=94)** | ***P*** |
| **Age (years)** | 38.62±9.702 | 38.33±9.789 | 0.820 |
| **Sex (M/F)** | 107/57 | 60/34 | 0.819 |
| **WBC (×109/L)** | 5.52±1.300 | 5.58±1.517 | 0.720 |
| **Neutrophils(×109/L)** | 3.00 (2.50-3.88) | 2.80 (2.50-3.53) | 0.263 |
| **Lymphocytes(×109/L)** | 1.70 (1.40-2.18) | 1.3 (1.40-2.26) | 0.067 |
| **N/L** | 1.80 (1.35-2.35) | 1.66 (1.22-2.13) | 0.102 |
| **RBCs (×1012/L)** | 4.88±0.519 | 4.80±0.518 | 0.281 |
| **Hemoglobin (g/L)** | 147.11±18.866 | 145.69±17.877 | 0.553 |
| **PLT****(×109/L)** | 199.17±50.561 | 177.93±54.601 | 0.002 |
| **INR** | 1.00±0.067 | 1.01±0.071 | 0.122 |
| **Fib(g/L)** | 2.24±0.480 | 2.20±0.462 | 0.534 |
| **PT(s)** | 11.48±0.731 | 11.67±0.728 | 0.049 |
| **Albumin (g/L)** | 45.96±4.258 | 44.35±3.844 | 0.003 |
| **Globulin (g/L)** | 26.14±3.675 | 27.37±4.057 | 0.013 |
| **A/G** | 1.79±0.301 | 1.65±0.261 | <0.001 |
| **ALT (U/L)** | 28.50 (20.00-54.75) | 47.00 (28.75-76.25) | <0.001 |
| **AST (U/L)** | 25.00 (20.00-37.00) | 39.00 (27.75-55.50) | <0.001 |
| **ALP (U/L)** | 68.27±17.899 | 72.83±18.743 | 0.054 |
| **ChE (U/L)** | 8336.11±1763.392 | 7742.22±2164.545 | 0.017 |
| **TB (U/L)** | 11.50 (9.00-16.00) | 11.00 (8.95-16.15) | 0.448 |
| **DB (U/L)** | 4.00 (3.00-5.00) | 4.00 (3.00-5.35) | 0.760 |
| γ**-GT(U/L)** | 19.00 (14.00-30.00) | 29.50 (17.00-46.75) | <0.001 |
| **TG (mmo/L)** | 0.98 (0.71-1.36) | 0.93 (0.71-1.24) | 0.459 |
| **TC (mmo/L)** | 4.18 (3.67-4.81) | 4.06 (3.60-4.68) | 0.371 |
| **FBG (mmo/L)** | 4.84 (4.37-5.11) | 4.67 (4.38-5.11) | 0.627 |
| **AFP (ng/ml)** | 2.60 (1.90-3.80) | 3.20 (2.28-5.13) | 0.001 |
| **HBV DNA (IU/mL)** | 2.22E6 (1.97E4-1.73E8) | 3.33E6 (1.13E5-5.56E7) | 0.716 |
| **HBsAg (IU/mL)** | 7.04E3 (1.28E3-4.79E4) | 3.65E3 (2.02E3-1.42E4) | 0.317 |
| **HBcAb (S/CO)** | 10.39±2.454 | 11.09±2.113 | 0.022 |
| **HBeAg (PEIU/mL)** | 13.51(0.06-365.18) | 3.38 (0.06-276.33) | 0.272 |
| **LN (ng/ml)** | 18.95 (10.68-28.80) | 20.80 (13.68-31.43) | 0.181 |
| **HA (ng/ml)** | 44.50(36.00-59.75) | 62.64 (46.00-96.25) | <0.001 |
| **PIIINP (ng/ml)** | 19.45 (14.20-22.98) | 22.60 (15.53-29.70) | 0.004 |
| **CIV (ng/ml)** | 21.10 (16.13-25.33) | 27.10 (20.48-42.33) | <0.001 |

Note: AFP, alpha fetoprotein; A/G, albumin/globulin; ALP, alkaline phosphatase; ALT, alanine aminotransferase; AST, aspartate aminotransferase; CHB, chronic hepatitis B; ChE, cholinesterase; CIV, collagen IV; DB, direct bilirubin; FBG, fasting blood glucose; Fib, fibrinogen; HA, hyaluronic acid; HBcAb, hepatitis B virus core antibody; HBeAg, hepatitis B virus e antigen; HBsAg; hepatitis B virus surface antigen; HBV, hepatitis B virus; DNA, deoxyribonucleic acid; LN,laminin; RBCs, red blood cells; γ-GT, γ-glutamyl transpeptidase; PLT, platelet; PIIINP, procollagen type Ⅲ N terminal peptide; PT, prothrombin time; N/L, neutrophils/Lymphocytes; TB, total bilirubin; TG, triglyceride; TC, total cholesterol; WBC, white blood cell.