**Supplementary figure legend**

**Supplementary Figure 1.** Patients recruitment. Abbreviations: HBV DNA suppression: HBV DNA < 1000 IU/ mL; HCC: hepatocellular carcinoma; PEG-IFN, peginterferon; viral hepatitis: including hepatitis A, hepatitis C and hepatitis D; AIH: auto-immune hepatitis; HIV: human immunodeficiency virus; without key data for analysis: mainly referring to virology and biochemistry results.