

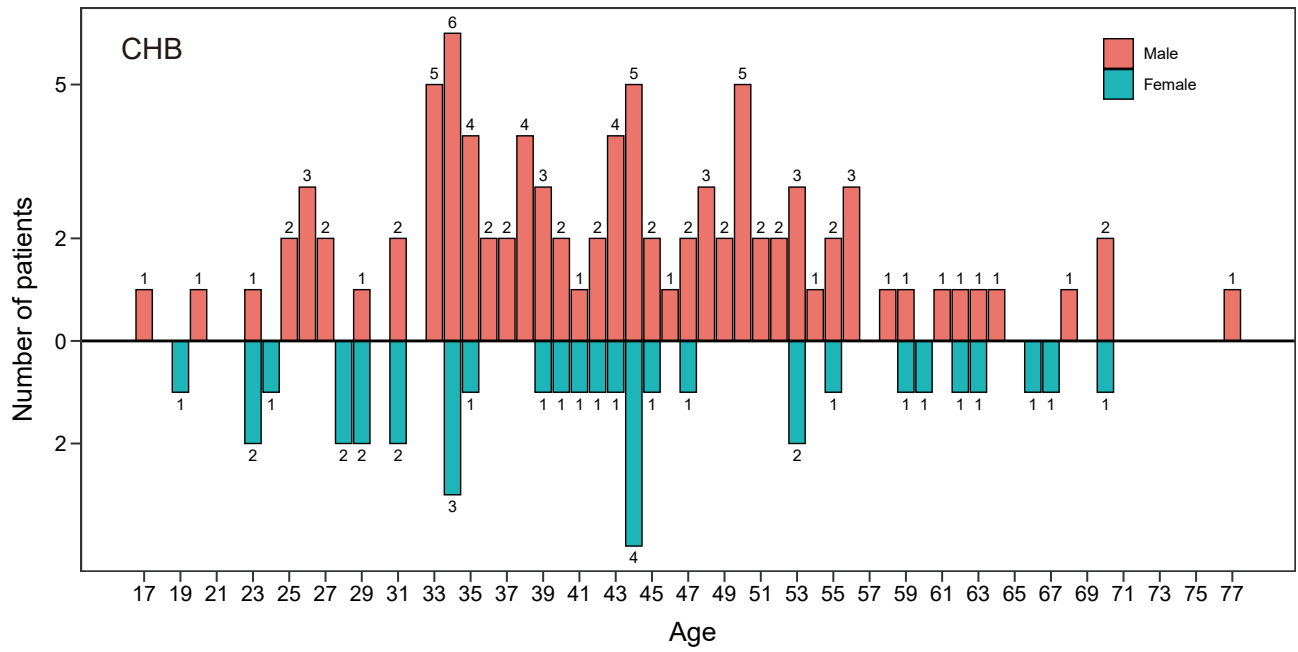
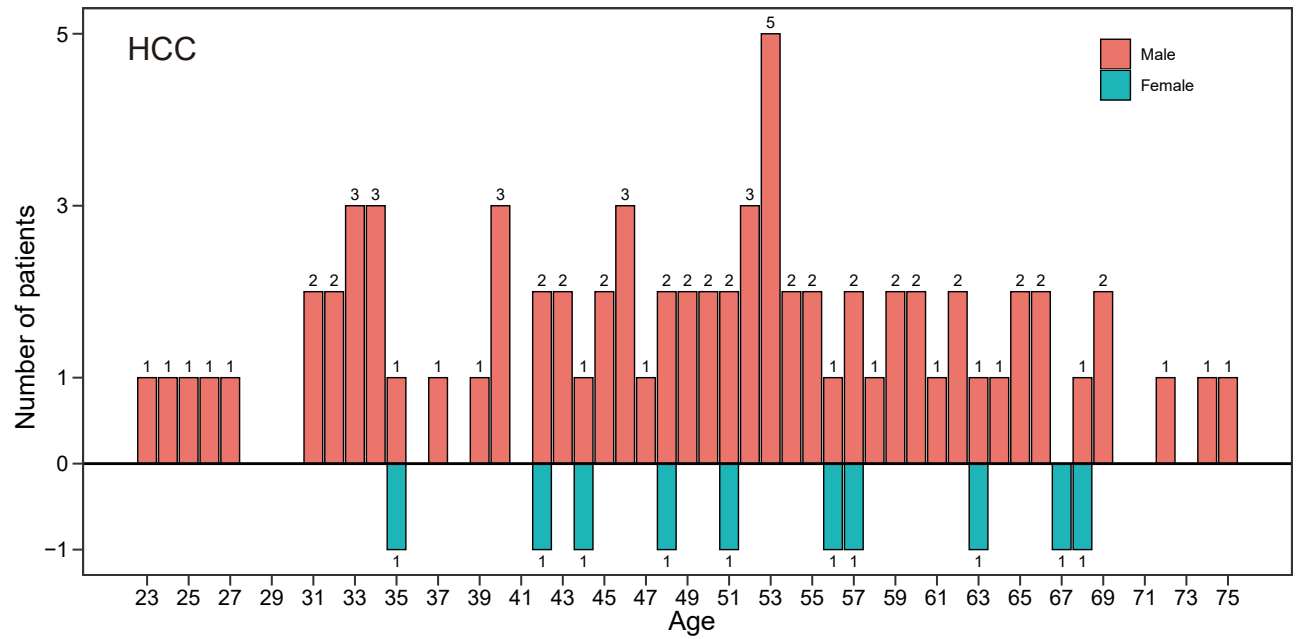
A**B**

Figure S1 The age distribution of the CHB and HCC patients.

(A) The age distribution of CHB patients. (B) The age distribution of HCC patients.

The x-axis represents the patients' ages, and the y-axis represents the number of patients.

The red bar chart shows the distribution of male patients across different age groups, while the cyan bar chart shows the distribution of female patients across different age groups. Each bar chart is labeled with the specific number of patients.

Abbreviations: CHB, chronic hepatitis B; HCC, hepatocellular carcinoma.

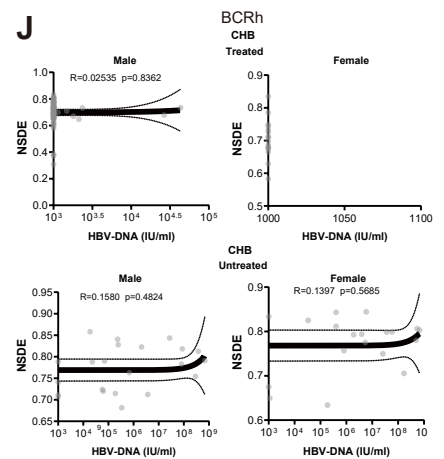
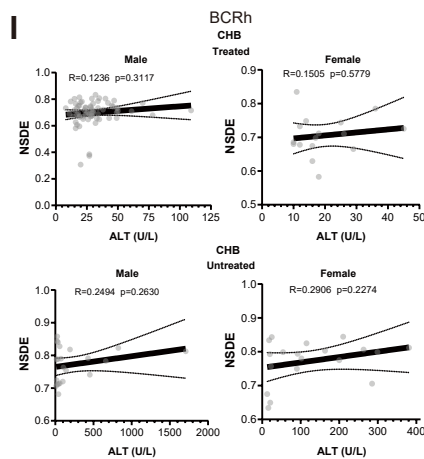
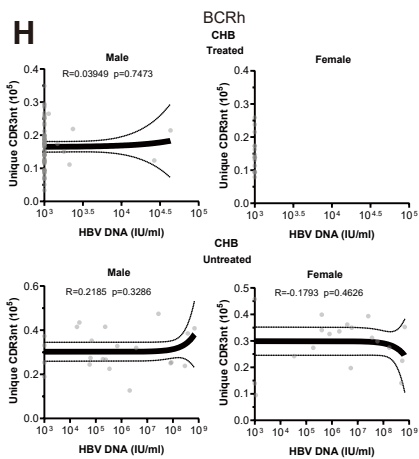
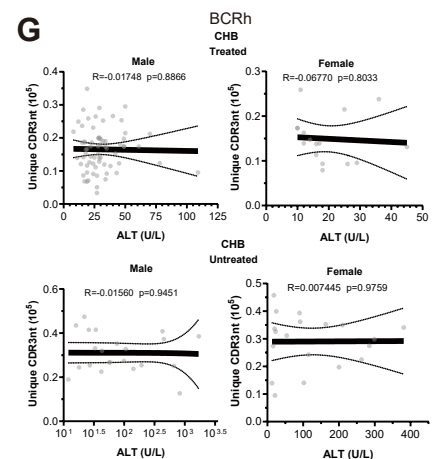
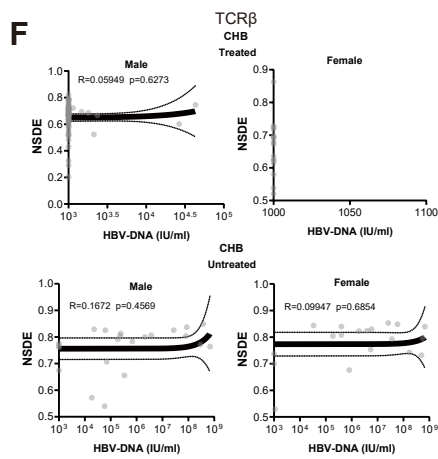
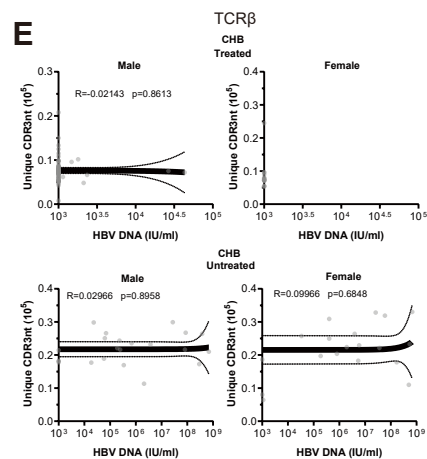
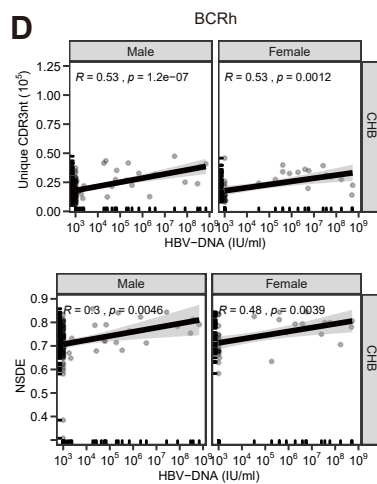
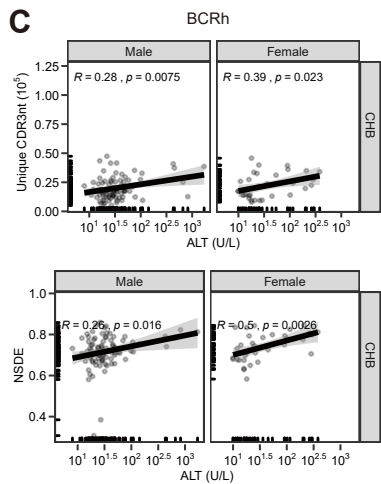
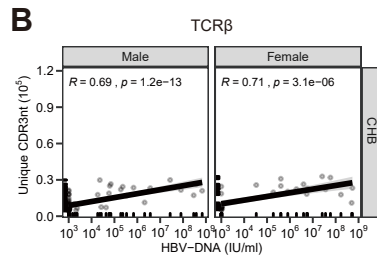
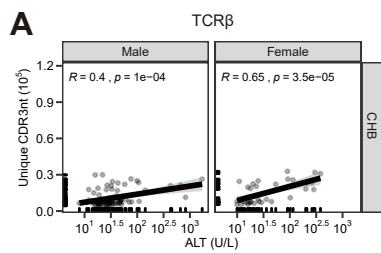


Figure S2 The correlation of immune repertoire diversity with ALT and HBV DNA levels in CHB patients.

(A) The correlations of TCR β richness with ALT levels in male and female of CHB patients. (B) The correlations of TCR β richness with HBV DNA levels in male and female of CHB patients. (C) The correlations of BCRh richness (above) and evenness (below) with ALT levels in male and female of CHB patients. (D) The correlations of BCRh richness (above) and evenness (below) with HBV DNA levels in male and female of CHB patients. (E) The correlations of TCR β richness with HBV DNA levels in treated (above) and untreated CHB patients (below). (F) The correlations of TCR β evenness with HBV DNA levels in treated (above) and untreated CHB patients (below). (G) The correlations of BCRh richness with ALT levels in treated (above) and untreated CHB patients (below). (H) The correlations of BCRh richness with HBV DNA levels in treated (above) and untreated CHB patients (below). (I) The correlations of BCRh evenness with ALT levels in treated (above) and untreated CHB patients (below). (J) The correlations of BCRh evenness with HBV DNA levels in treated (above) and untreated CHB patients (below).

Abbreviations: ALT, alanine aminotransferase; BCRh, B cell receptor heavy chain; CHB, chronic hepatitis B; NSDE, normalized Shannon diversity entropy; TCR β , T cell receptor β chain.