Group + new.stage=II + new.stage=III + new.stage=IV Survival probability Survival probability Log-rank Log-rank p < 0.00010.25 p < 0.0001 0.00 12 24 72 24 72 Time in Months 12 Time in Months Number at risk Number at risk 141 92 10 56

S<sub>1</sub>B

Time in Months

S1A

12

24

Time in Months

Figure S1. (a) Four stages in the pretreatment cohort. (b) Seven substages in the pretreatment cohort.

72

S1C S1D

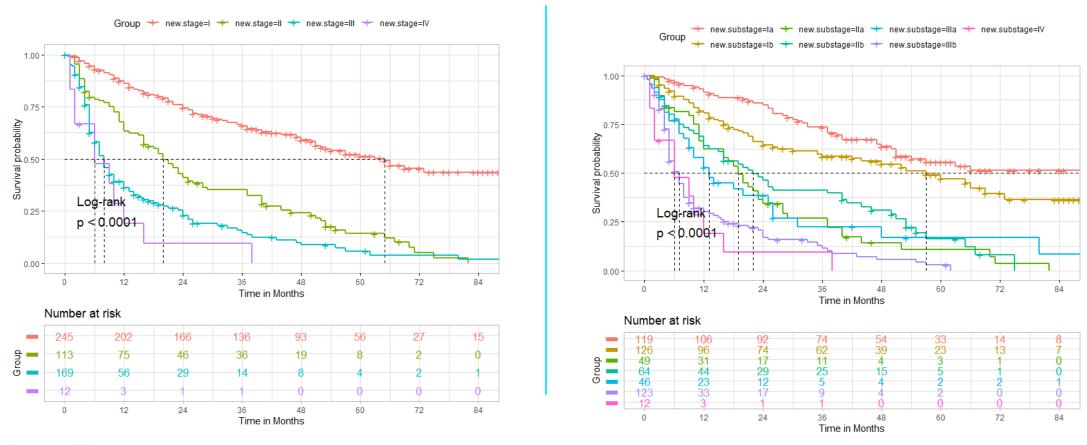
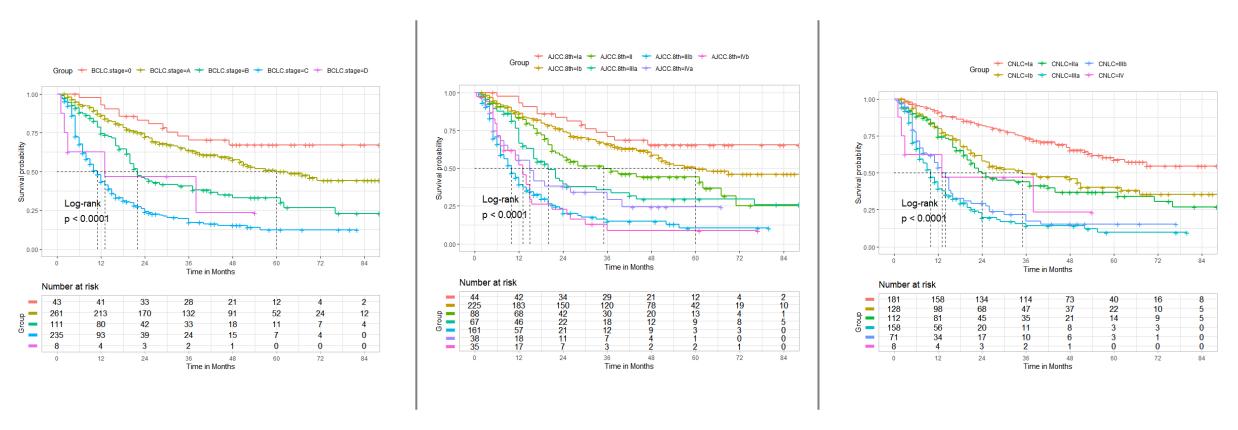


Figure S1. (c) Four stages in the no-pretreatment cohort. (d) Seven substages in the no-pretreatment cohort.

S2A S2B S2C



**Supplementary Fig. S1.** Kaplan-Meier curves of long-term overall survival with (A) BCLC staging in the training cohort, (B) TNM staging in the training cohort, (C) CNLC staging in the training cohort,