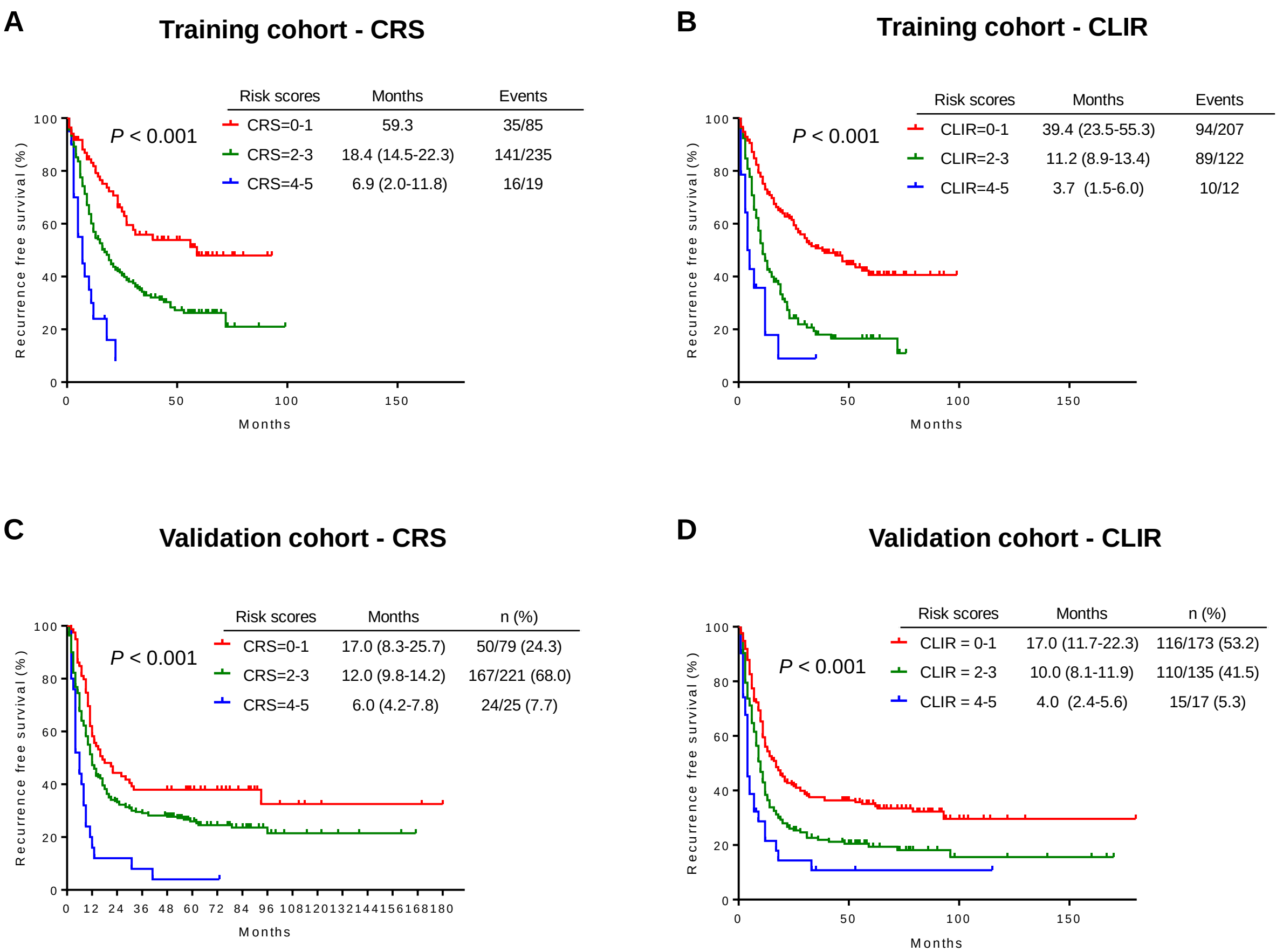


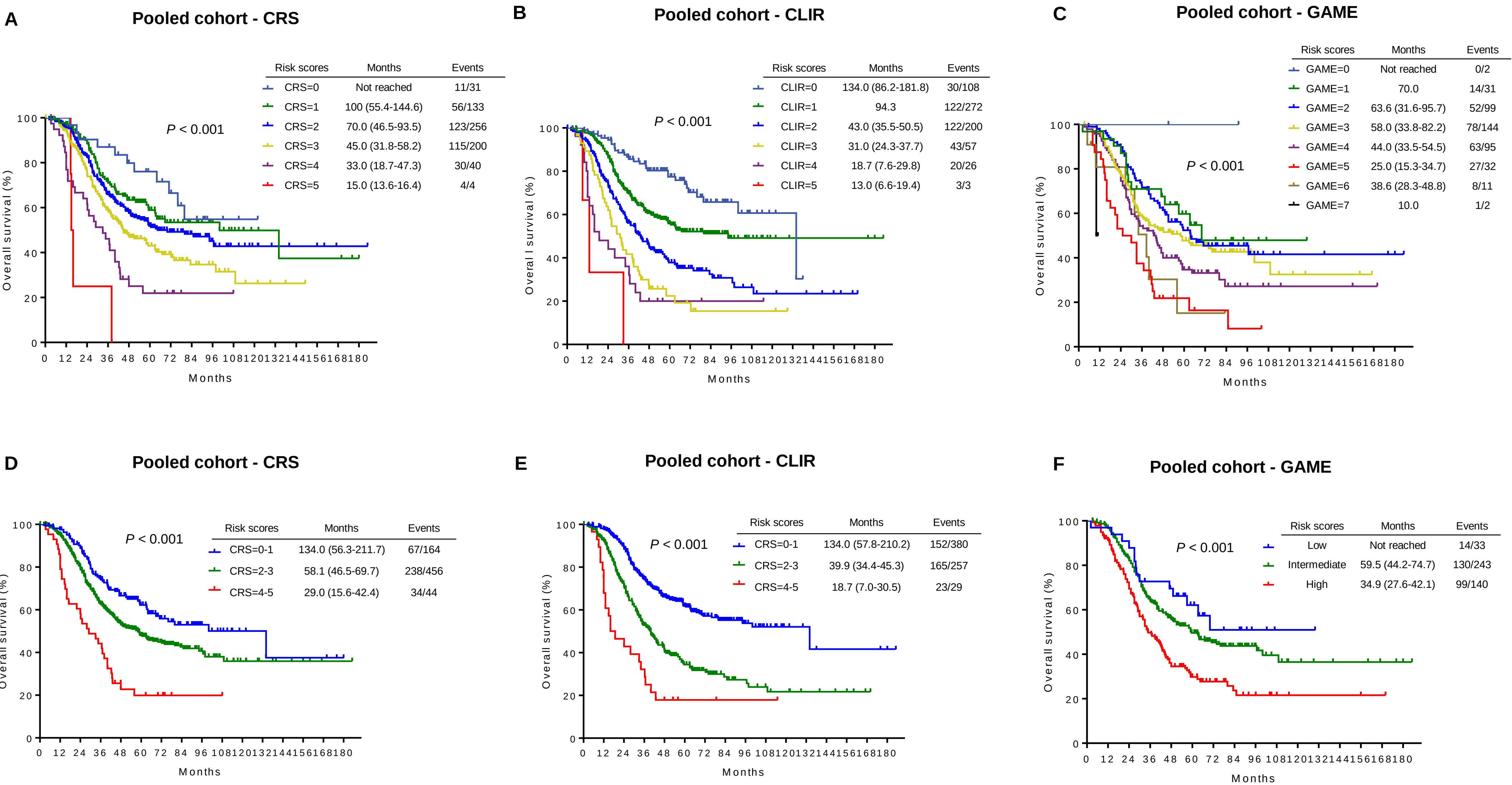
Supplementary Figure 1



Supplementary Figure 1. Kaplan–Meier analysis of recurrence-free survival of patients stratified according to different risk groups.

(A-B): Recurrence-free survival was stratified by different risk groups of CRS and CLIR in the training cohort. **(C-D):** Recurrence-free survival was stratified by different risk groups of CRS and CLIR in the validation cohort; three categories: score 0-1, score 2-3, and score 4-5. Abbreviations: CRS, clinical risk score; CLIR, circulating lipid- and inflammation-based risk score.

Supplementary Figure 2

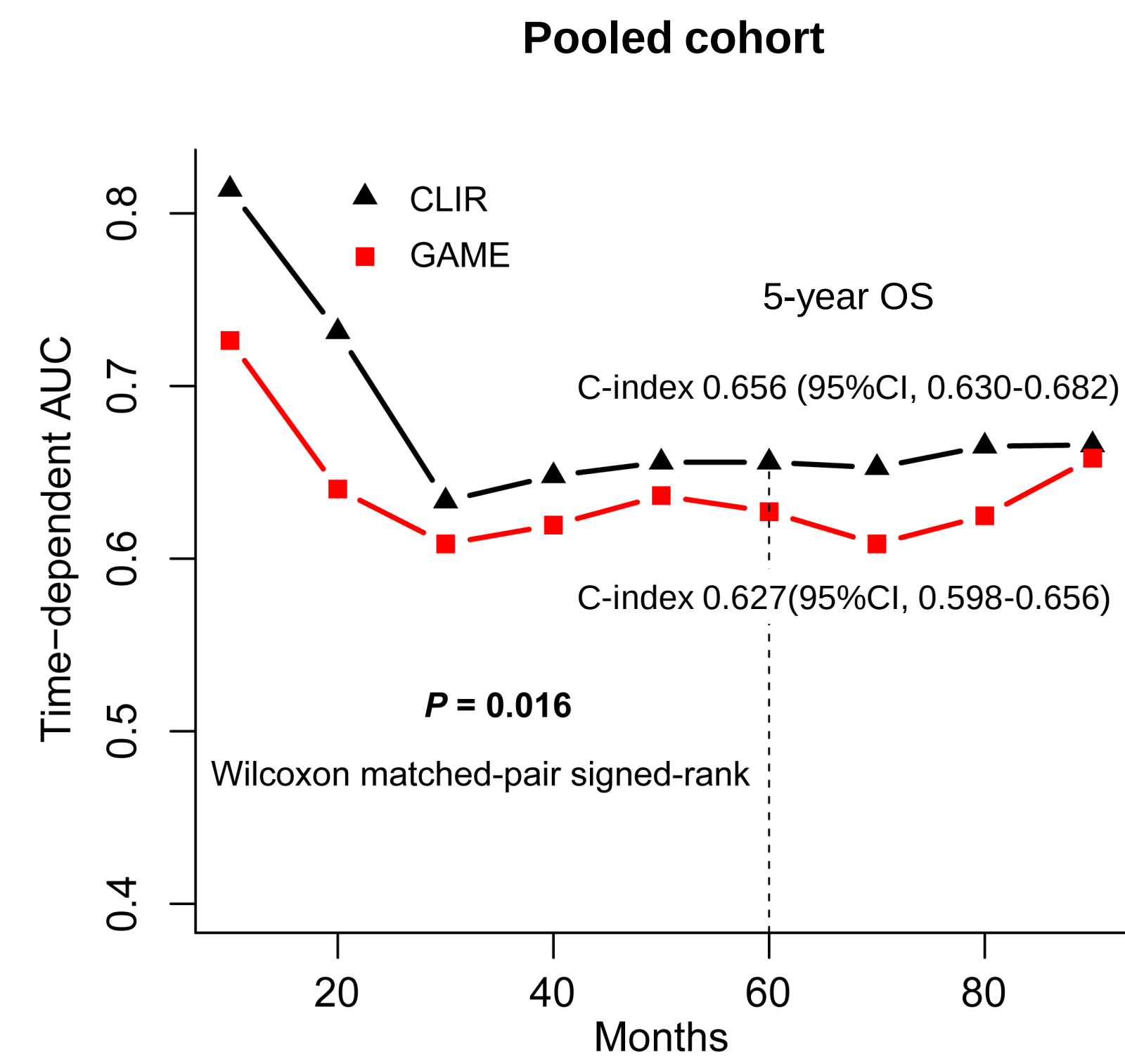


Supplementary Figure 2. Kaplan–Meier analysis of overall survival of patients in the pooled cohort stratified according to different scoring systems.

(A-C): Overall survival was stratified by different scores of CRS, CLIR, and GAME in the pooled cohort. **(D-F):** Overall survival was stratified by different risk groups of CRS, CLIR, and GAME scores in the pooled cohort; three categories: score 0-1, score 2-3, and score 4-5.

Abbreviations: CRS, clinical risk score; CLIR, circulating lipid- and inflammation-based risk score; GAME, genetic and morphological evaluation score.

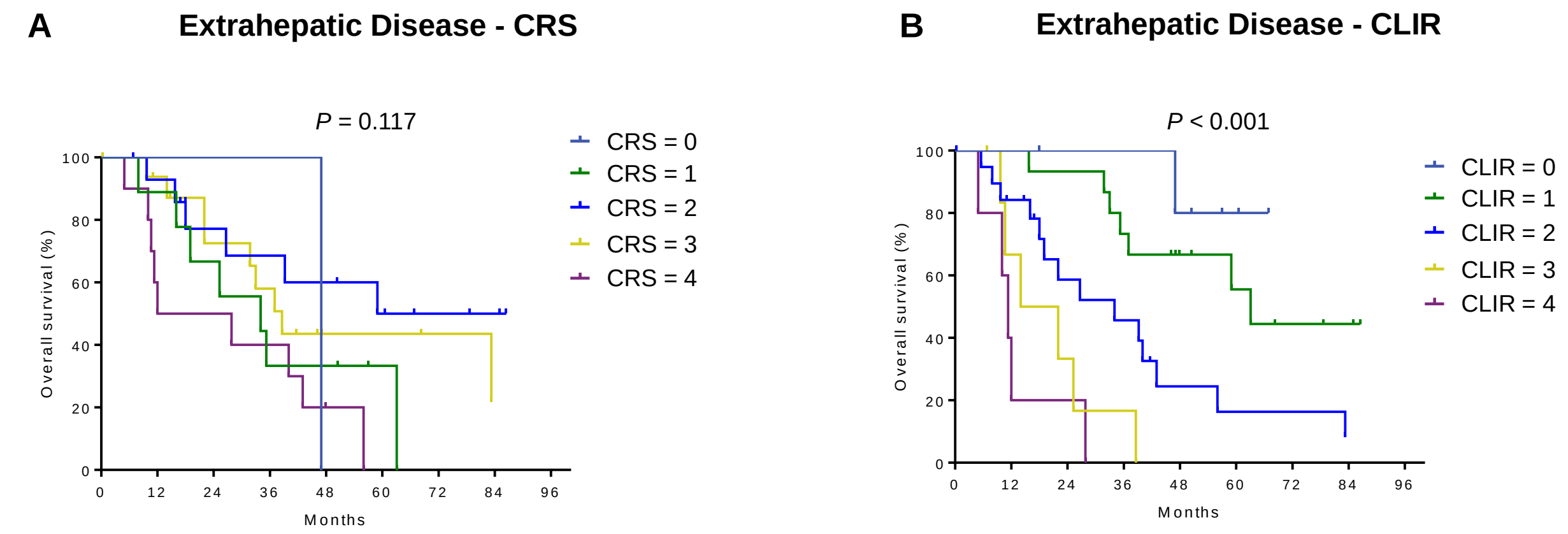
Supplementary Figure 3



Supplementary Figure 3. Time-dependent AUCs of CLIR and GAME scores in the prediction of overall survival in the pooled cohort.

Abbreviations: CLIR, circulating lipid- and inflammation-based risk score; GAME, genetic and morphological evaluation socre; AUC, the area under the curve; OS, overall survival; C-index, index of concordance.

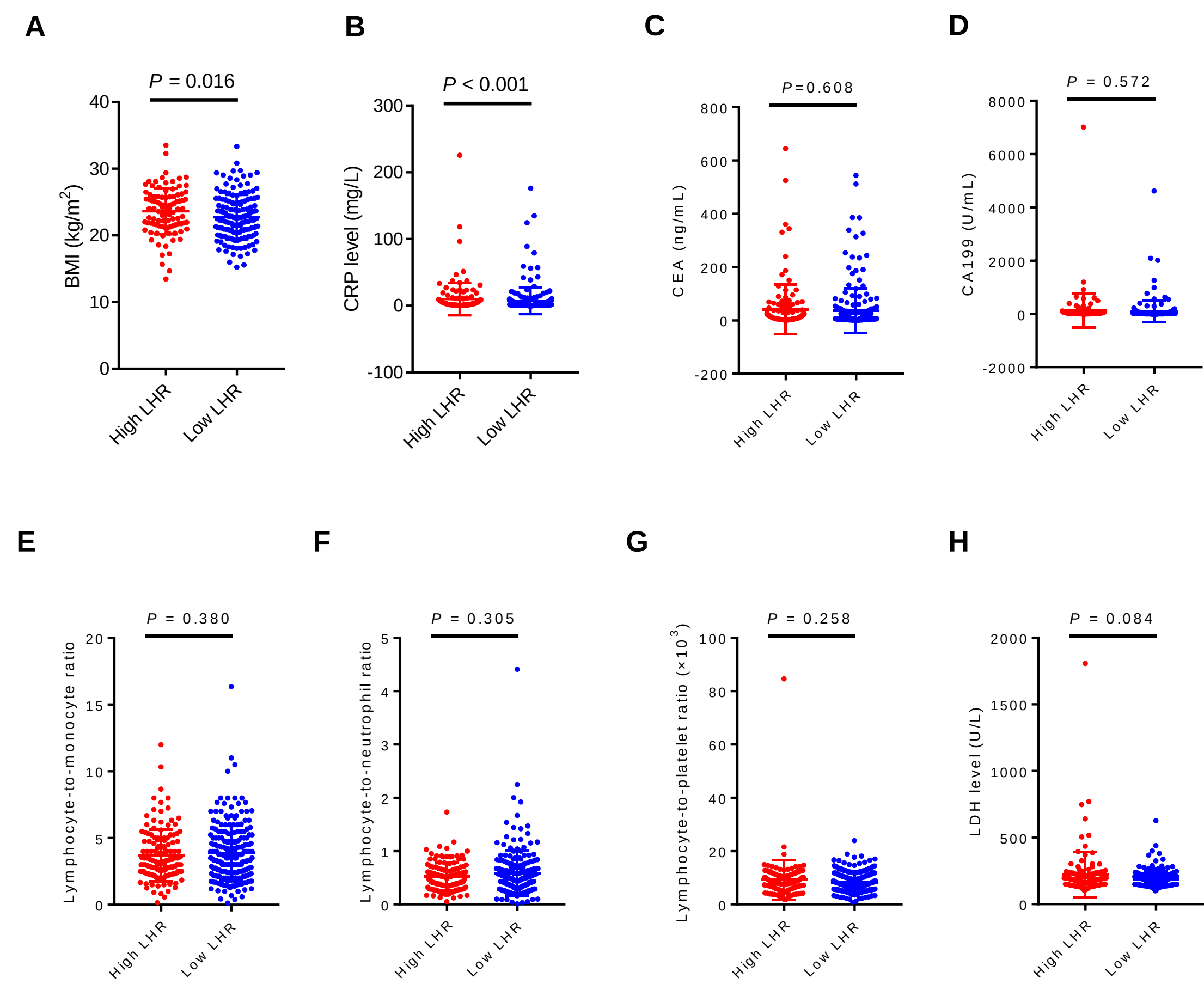
Supplementary Figure 4



Supplementary Figure 4. Overall survival was stratified according to CRS and CLIR score estimated by Kaplan-Meier curves in patients with extrahepatic diseases.

Abbreviations: CLIR, circulating lipid- and inflammation-based risk score; CRS, clinical risk score.

Supplementary Figure 5



Supplementary Figure 5. Associations between preoperative serum LHR and other baseline clinical parameters in the training cohort.

(A) LHR and BMI. (B) LHR and C-reactive protein levels. (C) LHR and CEA levels. (D) LHR and CA-199 levels. (E) LHR and lymphocyte-to-monocyte ratios. (F) LHR and lymphocyte-to-neutrophil ratios. (G) LHR and lymphocyte-to-platelet ratios. (H) LHR and LDH levels.

Abbreviations: LHR, low-density lipoprotein cholesterol-to-high-density lipoprotein cholesterol ratio; BMI, body mass index; CRP, C-reactive protein; LDH, lactate dehydrogenase.