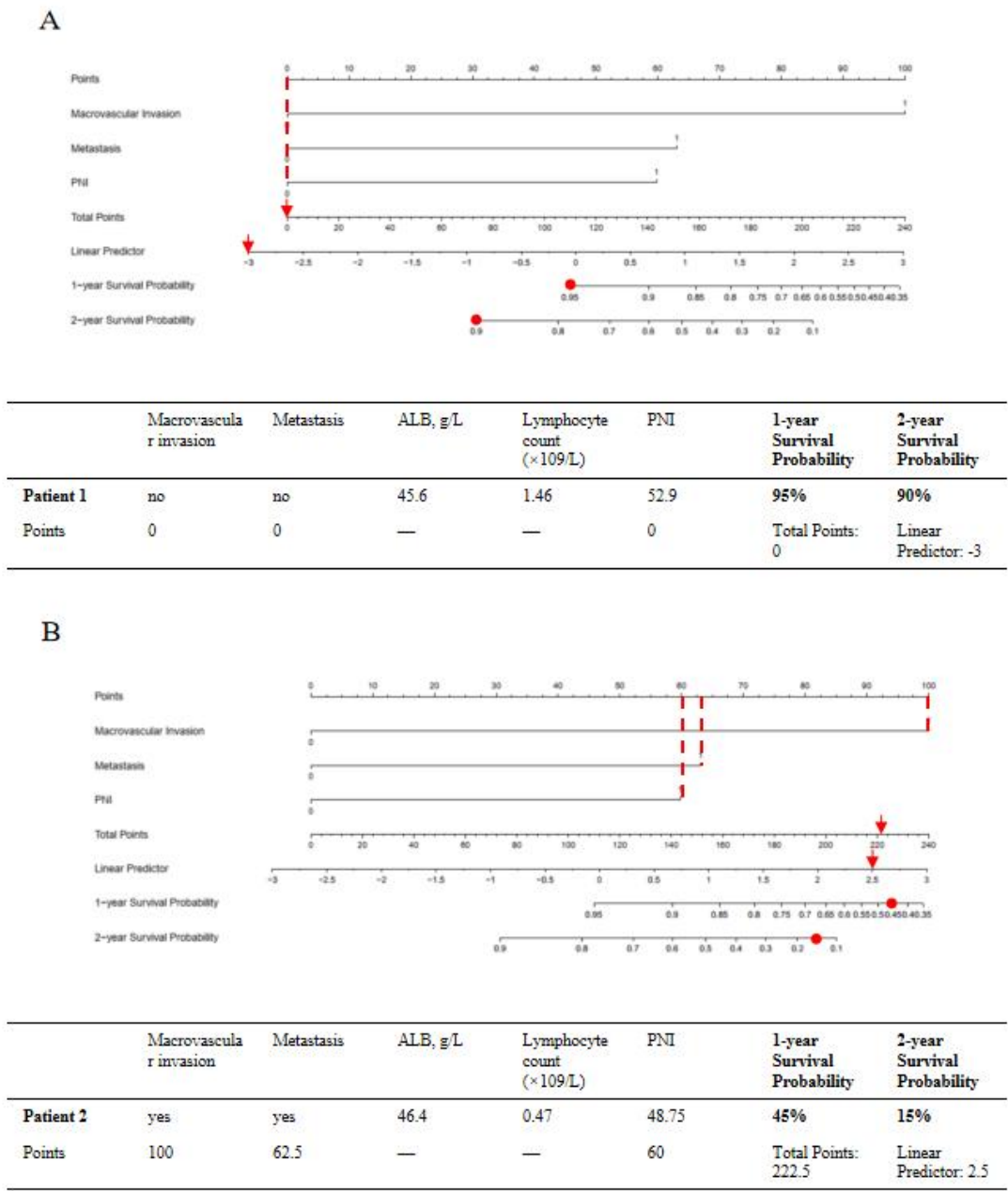
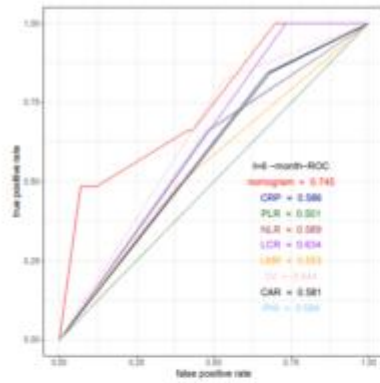


Supplementary Figure 1 Schematic of the method used to determine the optimal cutoff points for survival prediction. A: CRP; B: CAR; C: LCR; D: LMR; E: NLR; F: PLR; G: PNI; H: SII.

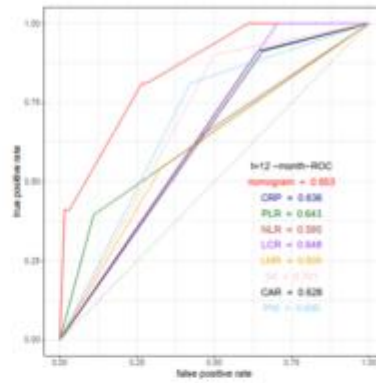


Supplementary Figure 2 Examples nomograms for predicting the survival probabilities of patients. A: Patient 1; B: Patient 2.

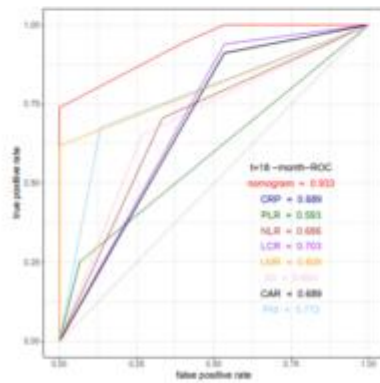
A



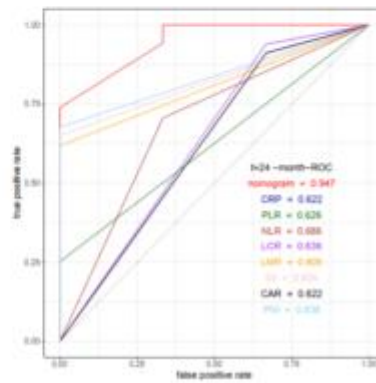
B



C



D



Supplementary Figure 3 Time-dependent receiver operating characteristic curves showing the survival predictions of the nomogram and different inflammation-based scores in HCC patients after lenvatinib therapy. A: 6 months; B: 12 months; C: 18 months; D: 24 months.

Supplementary Table 1 Combination therapies with lenvatinib

Combination therapy	N = 144
Programmed Death-1 inhibitors	138
HAIC	128
TACE	28

HAIC: Hepatic infusion chemotherapy; TACE: Transcatheter arterial chemoembolization.

Supplementary Table 2 Comparison of AUROC values for the nomogram and different inflammation-based scores

Metrics	6-month AUROC	12-month AUROC	18-month AUROC	24-month AUROC
Nomogram	0.76 (64.58–84.42)	0.85 (79.84–90.76)	0.93 (89.61–96.99)	0.95 (89.74–99.66)
CRP	0.59 (51.03–66.17)	0.64 (58.40–68.80)	0.69 (61.66–76.14)	0.62 (48.16–76.24)
PLR	0.50 (42.66–57.54)	0.64 (55.41–73.19)	0.59 (53.12–65.48)	0.63 (57.33–67.87)
NLR	0.59 (48.88–68.92)	0.60 (51.03–68.97)	0.69 (59.91–77.29)	0.69 (53.61–83.59)
LCR	0.63 (61.34–65.46)	0.65 (61.93–67.67)	0.70 (63.18–77.42)	0.64 (49.62–77.58)
LMR	0.55 (44.81–65.79)	0.61 (51.81–69.99)	0.81 (74.49–87.31)	0.81 (74.49–87.31)
SII	0.65 (56.18–72.82)	0.70 (64.42–75.88)	0.69 (60.62–77.98)	0.83 (76.08–89.12)
CAR	0.58	0.63 (57.61–67.99)	0.69 (61.66–76.14)	0.62 (48.16–76.24)

	(50.54–65.66)			
PNI	0.59	0.70 (62.57–76.43)	0.77 (69.41–84.99)	0.84 (77.37–90.23)
	(49.38–69.42)			

Values are presented as the AUROC (95% confidence interval).

AUROC: Area under the receiver operating characteristic curve; CRP: C-reactive protein; PLR: Platelet-to-lymphocyte ratio; NLR: Neutrophil-to-lymphocyte ratio; LCR: Lymphocyte-to-C-reactive protein ratio; LMR: Lymphocyte-to-monocyte ratio; SII: Systemic immune-inflammation index; CAR: C-reactive protein-to-albumin ratio; PNI: Prognostic nutritional index.