Supplementary material

Supplementary Table 1 Diagnosis performance of M-HVPG, L-HVPG and their average for identifying R-HVPG≥ 10, 12, 16, 20 mmHg

R-HVPG	M-HVPG				L-HVPG				Average			
	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC
≥ 10 mmHg	13.50	0.67 (0.33-1.00)	0.83 (0.72-0.91)	0.78 (0.60-0.95)	13.50	0.89 (0.67-1.00)	0.69 (0.55-0.81)	0.82 (0.62-1.00)	12.75	0.89 (0.67-1.00)	0.86 (0.76-0.95)	0.85 (0.67-1.00)
≥ 12 mmHg	15.50	0.71 (0.47-0.88)	0.76 (0.64-0.88)	0.78 (0.65-0.91)	16.50	0.94 (0.82-1.00)	0.54 (0.40-0.68)	0.79 (0.66-0.92)	14.25	0.71 (0.47-0.88)	0.82 (0.70-0.92)	0.83 (0.71-0.94)
≥ 16 mmHg	18.50	0.95 (0.87-1.00)	0.69 (0.52-0.86)	0.87 (0.79-0.96)	13.50	0.63 (0.47-0.79)	0.93 (0.83-1.00)	0.82 (0.71-0.92)	17.75	0.89 (0.79-0.97)	0.76 (0.59-0.90)	0.89 (0.81-0.97)
≥ 20 mmHg	20.50	0.89 (0.80-0.96)	0.77 (0.54-1.00)	0.86 (0.75-0.98)	16.50	0.70 (0.57-0.81)	0.92 (0.77-1.00)	0.82 (0.73-0.93)	17.75	0.74 (0.63-0.85)	0.92 (0.77-1.00)	0.90 (0.82-0.99)

HVPG, hepatic venous pressure gradient; Se, sensitivity; Sp, specificity; AUC, area under the receiver operating characteristic curve.

Supplementary Table 2 Diagnosis performance of M-HVPG, L-HVPG and their average for identifying R-HVPG≥ 10, 12, 16. 20 mmHg in patients with HBV

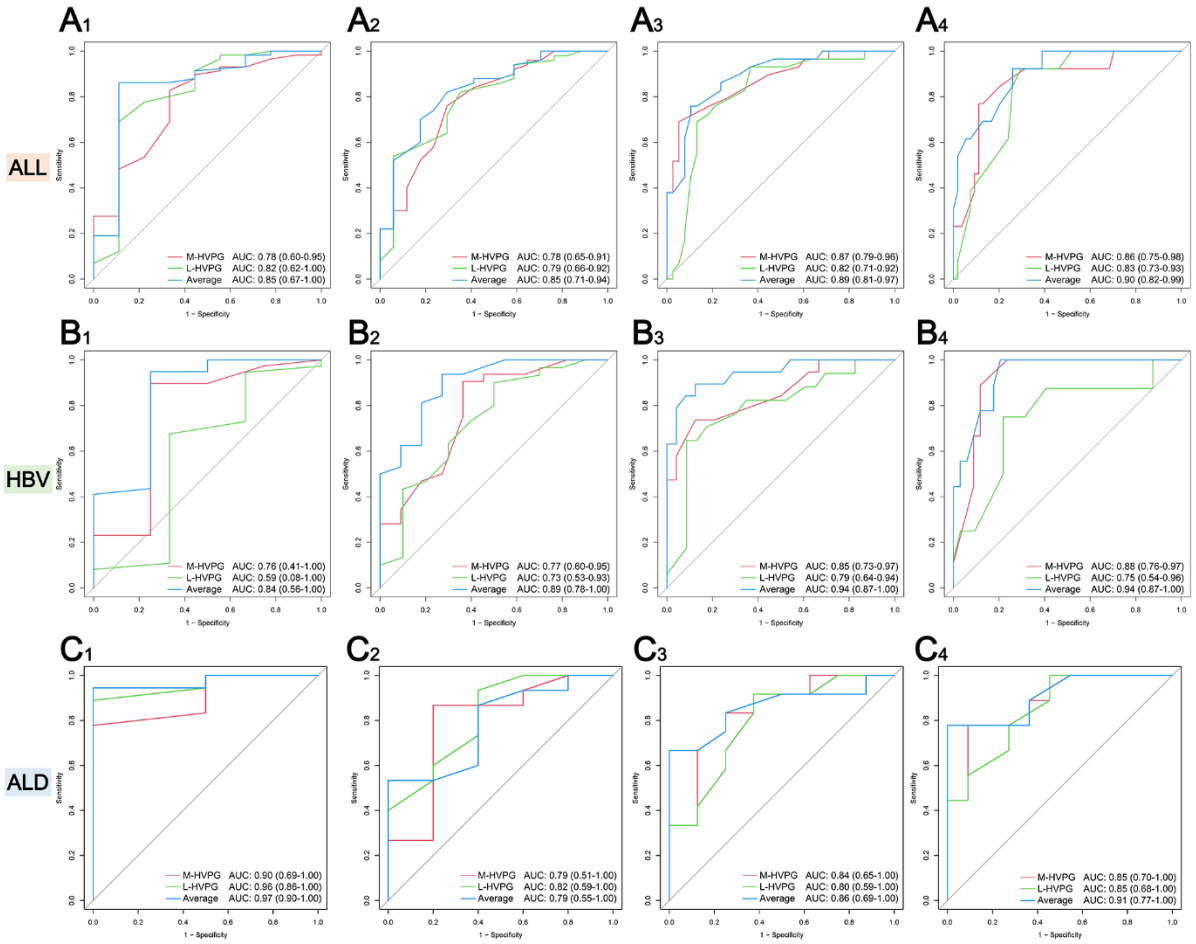
R-HVPG	M-HVPG				L-HVPG				Average			
	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC
≥ 10 mmHg	10.0	0.75 (0.25-1.00)	0.90 (0.79-0.97)	0.76 (0.41-1.00)	12.5	0.67 (0-1.00)	0.68 (0.51-0.81)	0.59 (0.08-1.00)	10.0	0.75 (0.25-1.00)	0.95 (0.87-1.00)	0.84 (0.56-1.00)
≥ 12 mmHg	14.5	0.64 (0.36-0.91)	0.91 (0.81-1.00)	0.77 (0.60-0.95)	9.5	0.73 (0.53-0.93)	0.50 (0.20-0.80)	0.90 (0.80-1.00)	11.8	0.73 (0.45-1.00)	0.94 (0.84-1.00)	0.89 (0.78-1.00)
≥ 16 mmHg	17.5	0.86 (0.75-1.00)	0.74 (0.53-0.74)	0.85 (0.73-0.97)	17.5	0.91 (0.78-1.00)	0.65 (0.41-0.88)	0.79 (0.64-0.94)	15.7	0.88 (0.75-1.00)	0.89 (0.74-1.00)	0.88 (0.79-0.98)
≥ 20 mmHg	18.5	0.88 (0.76-0.97)	0.89 (0.67-1.00)	0.92 (0.84-1.00)	17.5	0.78 (0.63-0.91)	0.75 (0.38-1.00)	0.75 (0.54-0.96)	17.3	0.79 (0.65-0.91)	1.00 (1.00-1.00)	0.94 (0.86-1.00)

HVPG, hepatic venous pressure gradient; Se, sensitivity; Sp, specificity; AUC, the area under the receiver operating characteristic curve; HBV, epatitis B virus

Supplementary Table 3 Diagnosis performance of M-HVPG, L-HVPG and their average for identifying R-HVPG≥ 10, 12, 16. 20 mmHg in patients with ALD

R-HVPG	M-HVPG				L-HVPG				Average			
	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC	Cutoff	Sp	Se	AUC
≥ 10 mmHg	13.5	1.00 (1.00-1.00)	0.78 (0.56-0.94)	0.90 (0.69-1.00)	12.5	1.00 (1.00-1.00)	0.89 (0.72-1.00)	0.96 (0.86-1.00)	13.3	1.00 (1.00-1.00)	0.94 (0.83-1.00)	0.97 (0.83-1.00)
≥ 12 mmHg	13.5	0.80 (0.40-1.00)	0.87 (0.67-1.00)	0.79 (0.51-1.00)	12.5	0.60 (0.20-1.00)	0.93 (0.80-1.00)	0.82 (0.59-1.00)	18.3	1.00 (1.00-1.00)	0.53 (0.27-0.80)	0.79 (0.55-1.00)
≥ 16 mmHg	15.5	0.75 (0.38-1.00)	0.83 (0.58-1.00)	0.84 (0.65-1.00)	13.5	0.63 (0.25-1.00)	0.92 (0.41-0.88)	0.80 (0.59-1.00)	18.3	1.00 (1.00-1.00)	0.67 (0.42-0.92)	0.86 (0.69-1.00)
≥ 20 mmHg	20	0.91 (0.73-1.00)	0.78 (0.44-1.00)	0.85 (0.70-1.00)	13.5	0.55 (0.27-0.82)	1.00 (1.00-1.00)	0.85 (0.68-1.00)	18.8	1.00 (1.00-1.00)	0.78 (0.44-1.00)	0.91 (0.77-1.00)

HVPG, hepatic venous pressure gradient; Se, sensitivity; Sp, specificity; AUC, the area under the receiver operating characteristic curve; ALD, lcoholic-related liver disease



Supplementary Figure 1 Receiver operating characteristic curves of M-HVPG, L-HVPG and their average. (A_{1-4}) R-HVPG ≥ 10, 12, 16, 20 mmHg; (B_{1-4}) R-HVPG ≥ 10, 12, 16, 20 mmHg in HBV; (C_{1-4}) R-HVPG ≥ 10, 12, 16, 20mmHg in ALD.