

Table 1 Differences in the cause of death between high-value and low-value groups

Groups	Death (numbers)		X ² value	P value
	Liver failure	HCC		
APRI low-value	4	124	5.232	0.022
APRI high-value	20	184		

Table 2 Univariate and multivariate analysis of DFS for HCC patients with liver cirrhosis

Factors	Log-Rank test		Cox	
	months	P	HR	P
	(median)	value	(95% CI)	value
Gender (male/female)	31.1/41.2	0.081	-	-
Age (≤ 60 / >60 years)	34.3/27.6	0.161	-	-
Diabetes (no/yes)	33.0/23.6	0.415	-	-
PH (no/yes)	34.3/29.3	0.066	-	-
Anti-HBV treatment (no/yes)	24.0/55.0	0.000	1.092 (0.810-1.473)	0.563
Child-Pugh (A/B)	33.0/16.5	0.106	-	-
AFP (≤ 20 / >20 ng/ml)	43.1/23.3	0.000	0.743 (0.569-0.969)	0.029
Tumor number ($1 \geq 2$)	40.1/14.6	0.000	0.587 (0.430-0.802)	0.001
Vascular tumor thrombus (no/yes)	35.0/9.2	0.000	0.496 (0.300-0.821)	0.006
Microvascular tumor thrombus (no/yes)	46.5/20.9	0.000	0.870 (0.643-1.177)	0.366
Maximum tumor size >5 cm (no/yes)	44.9/13.9	0.000	0.663 (0.496-0.886)	0.005
Liver capsule invasion (no/yes)	47.0/24.0	0.001	0.730 (0.539-0.987)	0.041
APRI value ≥ 0.61 (no/yes)	49.5/25.0	0.000	0.675 (0.516-0.883)	0.004
Portal blood block >20 min (no/yes)	37.0/20.9	0.004	0.803 (0.601-1.073)	0.137
Blood loss >200 ml (no/yes)	49.7/25.0	0.000	1.015 (0.750-1.375)	0.922
Anatomical resection (no/yes)	29.5/39.3	0.159	-	-
Minimum surgical margin ≥ 10 mm (no/yes)	29.2/49.7	0.037	1.132 (0.770-1.664)	0.529

Table 3 Comparison of clinical and pathological features between high-value and low-value groups

Factors	APRI value ($\bar{x} \pm s$)	t value	P value
Gender (male/female)	0.90 $\pm$ 0.95/ 0.87 $\pm$ 1.04	0.277	0.782
Age (≤ 60 / >60 years)	0.89 $\pm$ 0.96/ 0.92 $\pm$ 0.98	0.362	0.717
Child-Pugh (A/B)	0.86 $\pm$ 0.91/ 1.92 $\pm$ 1.74	2.762	0.012
PH (no/yes)	0.72 $\pm$ 0.73/ 1.71 $\pm$ 1.39	7.334	0.000
Vascular tumor thrombus (no/yes)	1.04 $\pm$ 0.80/ 0.89 $\pm$ 0.97	0.884	0.377
Microvascular tumor thrombus (no/yes)	0.87 $\pm$ 1.08/ 0.91 $\pm$ 1.01	0.291	0.771
Maximum tumor size >5 cm (no/yes)	0.90 $\pm$ 1.03/ 0.89 $\pm$ 0.80	0.103	0.918
Liver capsule invasion (no/yes)	0.84 $\pm$ 1.10/ 0.93 $\pm$ 0.88	1.103	0.270
AFP (≤ 20 / >20 ng/ml)	0.85 $\pm$ 1.06/ 0.95 $\pm$ 0.86	1.278	0.202
HBV surface antigen (no/yes)	0.56 $\pm$ 0.42/ 0.90 $\pm$ 0.97	0.784	0.433

HBV e antigen (no/yes)	$0.86 \pm 0.80 / 1.02 \pm 1.30$	1.885	0.060
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