

Supplementary Table 1. Univariate analysis of risk factors related to OS and recurrence of HCC patients

Variable	OS			DFS		
	HR	95% CI	p value	HR	95% CI	p value
<b>Gender</b>						
female	1			1		
male	1.00	0.64-1.57	.999	1.01	0.62-1.66	.964
<b>Age, years</b>						
≤50	1			1		
>50	1.29	0.95-1.74	.103	1.27	0.90-1.78	.170
<b>HBsAg</b>						
negative	1			1		
positive	1.46	0.98-2.19	.062	1.19	0.78-1.81	.429
<b>AFP, ng/mL</b>						
≤20	1			1		
>20	1.82	1.29-2.55	.001	1.27	0.89-1.81	.190
<b>GGT, U/L</b>						
≤50	1			1		
>50	1.55	1.13-2.13	.007	1.66	1.16-2.37	0.005
<b>ALT, U/L</b>						
≤40	1			1		
>40	1.22	0.66-2.56	.517	1.81	0.84-3.87	.128
<b>Liver cirrhosis</b>						
no	1			1		
yes	1.63	1.05-2.54	.030	1.70	1.04-2.80	.036
<b>Tumor size, cm</b>						
≤5	1			1		
>5	1.95	1.44-2.65	<.001	1.21	0.86-1.70	0.286
<b>Tumor number</b>						
single	1			1		
multiple	1.74	1.23-2.44	.002	1.89	1.28-2.78	.001
<b>Tumor capsule</b>						
yes	1			1		
no	1.74	1.28-2.35	<.001	1.49	1.06-2.10	.021
<b>Tumor differentiation</b>						
I-II	1			1		
III-IV	1.33	0.97-1.83	.075	1.21	0.84-1.74	.307

Vascular invasion						
no	1			1		
yes	2.50	1.81-3.45	<.001	1.72	1.17-2.63	0.006
RECK expression						
Negative	1			1		
Positive	0.60	0.38-0.96	.033	0.53	0.31-0.90	.019
PD-L1 expression						
Negative	1			1		
Positive	1.50	1.09-2.04	.012	1.07	0.74-1.54	.740

OS: Overall survival; DFS: disease free survival; HR: Hazard Ratio;

CI: Confidence Interval; GGT:γ-glutamyltransferase; AFP: a-fetoprotein;