

Supplemental Tables for:

Novel Models Predict Postsurgical Recurrence and Overall Survival for Patients with HBV-related Solitary Hepatocellular Carcinoma  $\leq 10$  cm and without Portal Venous Tumor Thrombus

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Supplementary Table 1. Risk factors associated with RFS and OS identified by Cox univariable analysis in the derivation cohort (n=811)

Variables	RFS		OS	
	HR (95% CI)	P	HR (95% CI)	P
Age (year)				
$\leq 50$ vs $>50$	0.875 (0.715-1.071)	0.196	0.992 (0.758-1.297)	0.951
Sex				
Male vs female	0.965 (0.729-1.277)	0.803	1.030 (0.707-1.500)	0.879
Anti-viral therapy				
No vs Yes	1.002 (0.827-1.215)	0.983	1.130 (0.926-1.378)	0.229
Cirrhosis				
Yes vs no	0.990 (0.876-1.119)	0.872	1.065 (0.899-1.262)	0.467
ALT (units/L)				
$> 40$ vs $\leq 40$	1.290 (1.052-1.583)	0.014	1.234 (0.942-1.617)	0.128
Child-Pugh score				
Score 6 + 7 vs Score 5	1.190 (0.930-1.523)	0.166	1.462 (1.091-1.960)	0.011
ALBI grade				
Grade 2+3 vs Grade 1	1.424 (1.112-1.823)	0.005	1.648 (1.192-2.277)	0.002
Platelet ( $\times 10^9/L$ )				
$< 100$ vs $\geq 100$	0.759 (0.541-1.067)	0.112	0.648 (0.404-1.039)	0.072
NLR				
$> 2.3$ vs $\leq 2.3$	1.382 (1.126-1.696)	0.002		
$> 2.62$ vs $\leq 2.62$			1.638 (1.243-2.158)	$< 0.001$
PLR				
$> 108.3$ vs $\leq 108.3$	1.297 (1.058-1.589)	0.033		
$> 121.3$ vs $\leq 121.3$			1.002 (1.001-1.003)	0.006
Tumor size (cm)	1.077 (1.049-1.105)	$< 0.001$	1.549 (1.293-1.854)	$< 0.001$
AFP ( $\mu g/L$ )				
$> 400$ vs $\leq 400$	1.274 (1.133-1.433)	$< 0.001$	1.279 (1.094-1.495)	0.002
Tumor capsule				
Incomplete + non-capsule vs Complete	1.305 (0.976-1.745)	0.073	1.262 (0.858-1.857)	0.237
MVI				
Yes vs No	2.248 (1.796-2.813)	$< 0.001$	2.379 (1.787-3.167)	$< 0.001$
Tumor differentiation†				
Level 3 vs level 1+ level 2	1.460 (1.176-1.812)	0.001	1.749 (1.325-2.310)	$< 0.001$
Extent of resection				
Major vs Minor	0.883 (0.715-1.092)	0.252	0.977 (0.736-1.298)	0.875
Type of resection				
Anatomic vs Non-anatomic	0.893 (0.721-1.107)	0.303	0.951 (0.714-1.266)	0.730
Resection margin				
$\leq 1$ cm vs $> 1$ cm	0.875 (0.701-1.108)	0.532	0.651 (0.539-1.024)	0.247

Blood loss (ml)				
>800 vs ≤800	1.450 (1.048-2.005)	0.025	1.757 (1.159-2.663)	0.008
Blood transfusion				
Yes vs No	1.687 (1.346-2.115)	<0.001	1.815 (1.357-2.426)	<0.001

† level 1, High + High-moderate; level 2, Moderate-low; level 3, Low+Undifferentiation. HBsAg indicates hepatitis B surface antigen; ALT, alanine transaminase; NLR, neutrophil to lymphocyte ratio; PLR, platelet to lymphocyte ratio; AFP, alpha fetoprotein; MVI, microscopic vascular invasion.

Supplementary Table 2. Comparison of C-index of our nomograms with the 6 conventional staging systems

Model	RFS-prediction		OS-prediction	
	C-index (95% CI)	P value*	C-index (95% CI)	P value*
BCLC	0.55 (0.53-0.57)	<0.001	0.58 (0.58-0.60)	<0.001
TNM	0.73 (0.71-0.75)	<0.01	0.74 (0.72-0.76)	<0.001
JIS	0.74 (0.72-0.76)	<0.001	0.76 (0.73-0.78)	<0.001
CLIP	0.62 (0.58-0.64)	<0.001	0.68 (0.62-0.70)	<0.01
CUPI	0.61 (0.59-0.63)	<0.001	0.67 (0.65-0.69)	<0.001
Okuda	0.54 (0.52-0.56)	<0.001	0.56 (0.54-0.59)	<0.001
Our nomogram	0.83 (0.79-0.87)		0.87 (0.83-0.91)	

\*Compared to our nomogram