

**Supplementary Table 4.** Risk factors for further recurrence among patients who received resection and did not experience recurrence within 5 years (n=349)

Variable	Unadjusted		Multivariable	
	HR (95% CI)	P-value	HR (95% CI)	P-value
Age at 5-year $\geq 60$ vs. $< 60$ (years)	1.32 (0.86–2.04)	0.207		
Male vs. female	2.33 (1.20–4.52)	0.012	2.28 (1.18–4.43)	0.015
Diabetes	1.34 (0.7–2.31)	0.300		
HBV vs. others	0.80 (0.44–1.45)	0.467		
Advanced fibrosis on histology* vs. no	5.41 (1.70–17.17)	0.004	4.23 (1.32–13.53)	0.015
Tumor number				
Single (n=330)	Reference			
Two or three (n=19)	1.45 (0.59–3.58)	0.425		
Maximal tumor diameter (cm)				
$\leq 2$ (n=110)	Reference			
$> 2$ and $\leq 5$ (n=201)	1.04 (0.65–1.67)	0.859		
$> 5$ (n=38)	0.70 (0.31–1.55)	0.378		
5-year ALBI grade				
1 (n=334)	Reference		Reference	
$\geq 2$ (n=15)	2.95 (1.35–6.45)	0.007	1.02 (0.39–2.68)	0.972
5-year AFP (ng/mL)				
$< 10$ (n=334)	Reference		Reference	
$\geq 10$ (n=15)	6.31 (3.42–11.67)	$< 0.001$	4.78 (2.30–9.92)	$< 0.001$

HR, hazard ratio; CI, confidence interval; HBV, hepatitis B virus; ALBI, albumin-bilirubin; AFP, alpha-fetoprotein.

\*Advanced fibrosis was defined as stage 3 (bridging fibrosis) or stage 4 (cirrhosis).