

Supplementary Table 3. Risk factors for mortality in all patients by univariate analysis

	OR (95% CI)	P-value
Group 1 status	4.025 (1.333–7.692)	0.025
Sex (female)	1.067 (0.461–2.467)	0.880
Age	0.977 (0.944–1.012)	0.199
WBC	1.217 (1.007–1.472)	0.043
Hemoglobin	0.957 (0.794–1.152)	0.641
Platelet	1.004 (0.999–1.009)	0.120
Total bilirubin	0.327 (0.088–1.213)	0.095
AST	1.001 (1.000–1.000)	0.030
ALT	1.001 (1.000–1.002)	0.026
INR	6.066 (0.971–37.892)	0.054
Albumin	0.711 (0.294–1.720)	0.449
Creatinine	1.793 (0.949–3.385)	0.072
CRP	1.210 (0.906–1.616)	0.196
ICG-R15	1.041 (0.990–1.093)	0.116
ALBI grade		
1	1 (1)	0.748
2	0.745 (0.348–1.596)	0.449
3	0.849 (0.113–6.379)	0.874
APRI > 1.0	1.010 (0.417–2.450)	0.982
AFP > 40 ng/mL	1.412 (0.659–3.026)	0.374
PIVKA-II > 75 mAU/mL	1.730 (0.762–3.930)	0.190
Extent of operation (major liver resection)	0.661 (0.327–1.336)	0.249
Anatomical liver resection	0.575 (0.290–1.140)	0.113
Laparoscopic liver resection	2.225 (1.032–4.798)	0.041
Operation time	1.003 (0.999–1.007)	0.168
Intraoperative RBC transfusion	3.073 (1.149–8.218)	0.025
Blood loss during operation	1.000 (1.000–1.001)	0.184
Hospitalization	1.060 (1.036–1.085)	<0.001
Tumor size	1.035 (0.941–1.139)	0.474
Tumor grade 3 or 4	1.214 (0.462–3.193)	0.694
Encapsulation	0.646 (0.291–1.434)	0.283
Microvascular invasion	1.529 (0.758–3.081)	0.235
PVTT	1.319 (0.178–9.745)	0.786
Satellite nodule	8.020 (2.672–24.075)	<0.001
Free resection margin	0.991 (0.948–1.036)	0.677
Cirrhosis	0.537 (0.233–1.235)	0.143

OR, odds ratio; 95% CI, 95% confidence interval; AST, aspartate transaminase; ALT, alanine transaminase; INR, international normalized ratio; CRP, C-reactive protein; ICG-R15, indocyanine green at 15 minutes; ALBI, albumin-bilirubin; APRI, aspartate transaminase to platelet ratio index; AFP, alpha-fetoprotein; PIVKA-II, proteins induced by vitamin K absence or antagonist-II; RBC, red blood cell; PVTT, portal vein tumor thrombosis.