

Supplementary Table 1. Univariate and multivariate analysis of prognostic factors associated with overall survival and recurrence-free survival in the primary cohort.

Variables	Overall survival			Recurrence-free survival		
	Univariate <i>P</i> value	Multivariate <i>P</i> value	Multivariate HR (95% CI)	Univariate <i>P</i> value	Multivariate <i>P</i> value	Multivariate HR (95% CI)
Gender						
Male/Female	0.650	NA		0.512		
Age (years)						
<65/≥65	0.228	NA		0.285		
Primary site						
Head/Body or tail	0.755	NA		0.647		
Differentiation						
I/II/III	0.036	0.492	1.225(0.687-2.184)	0.055		
T stage						
T1+T2/ T3+T4	0.183	NA		0.181		
N stage						
N0/N1-2	<0.001	0.001	3.814(1.686-8.628)	<0.001	0.036	2.110 (1.048-4.246)
TNM stage						
I/II/III	<0.001	0.346	0.780 (0.466-1.307)	0.001	0.601	0.883 (0.553-1.408)
Perineural invasion						
No/Yes	0.046	0.181	0.456 (0.144-1.441)	0.026	0.601	0.743 (0.244-2.262)
CA19-9						
< 37/ ≥ 37 U/L	0.447	NA		0.823		
CEA						
< 5/ ≥ 5 ng/mL	0.499	NA		0.396		
TBIL						

≤ 20.4/ > 20.4 μmol/L	0.805	NA		0.866			
Albumin							
< 35/ ≥ 35 g/L	0.408	NA		0.288			
ALT							
≤ 35/ > 35 U/L	0.681	NA		0.818			
AST							
≤ 40/ > 40 U/L	0.689	NA		0.664			
GGT							
≤ 60/ > 60 U/L	0.669	NA		0.342			
Glucose							
≤ 5.6/ > 5.6 mmol/L	0.729	NA		0.316			
Tumor-associated neutrophils N1	<0.001	<0.001	0.877 (0.833-0.924)	<0.001	<0.001	0.906 (0.869-0.938)	
Tumor-associated neutrophils N2	<0.001	0.023	1.030 (1.004-1.057)	<0.001	0.018	1.026 (1.004-1.048)	
Tumor-infiltrating Tregs	0.001	0.014	1.032 (1.006-1.059)	<0.001	0.001	1.043 (1.018-1.070)	
Tumor-infiltrating CD8+ T cells	0.002	0.025	0.990 (0.981-0.999)	0.019	0.258	0.005(0.996-1.014)	