

Table S1. Cox Survival Analysis of Predictors of Recurrence-Free Survival.

Variables	Category	Univariate analysis		Multivariate analysis	
		HR (95% CI)	P value	HR (95% CI)	P value
Age(years)	<65vs. ≥65	0.746(0.498,1.119)	0.157		
Sex	Male vs. Female	1.072(0.718,1.599)	0.734		
CEA(ng/ml)	≤5 vs.>5	1.028(0.591,1.787)	0.923		
CA19-9(U/ml)	≤39 vs.>39	0.793(0.438,1.248)	0.258		
After surgery CA19-9(U/ml)	≤39 vs.>39	1.418(0.948,2.121)	0.089		
Type of surgery	PD	Ref			
	DP	1.241(0.799,1.925)	0.336		
	TP	1.953(0.931,4.094)	0.076		
Tumor location	Head	Ref			
	Body	0.919(0.397,2.124)	0.842		
	Tail	1.162(0.741,1.823)	0.513		
Tumor size(cm)	≤ 2	Ref		Ref	
	2-4	2.092(1.100,3.980)	0.024	1.993(1.040,3.818)	0.038
	>4	3.117(1.491,6.515)	0.003	2.642(1.256,5.555)	0.010
N stage	N0	Ref			
	N1	1.465(0.963,2.228)	0.074		
	N2	1.742(0.878,3.457)	0.112		
AJCC stage, 8th,	IA	Ref			
	IB	2.045(0.905,4.623)	0.086		
	IIA	1.849(0.584,5.855)	0.296		
	IIB	2.602(1.165,5.809)	0.020		
	III	3.277(1.264,8.494)	0.015		
Baseline resectability	Resectable vs. Borderline	1.156(0.741,1.803)	0.522		
Margin	R0 vs. R1	1.767(1.162,2.685)	0.008	1.759(1.149,2.692)	0.009
Nerve invasion	(+) vs. (-)	0.928(0.516,1.666)	0.801		
Adjuvant Chemotherapy	Yes vs. No	0.761(0.507,1.143)	0.189		
ADC (×10 ⁻³ mm ² /s)	>1.33 vs. ≤1.33	1.621(1.086,2.420)	0.018	1.238(0.781,1.964)	0.364
D(×10 ⁻³ mm ² /s)	>1.08 vs. ≤1.08	2.474(1.616,3.787)	0.001	2.066(1.252,3.409)	0.005
D*(×10 ⁻³ mm ² /s)	>7.94 vs. ≤7.94	1.008(0.649,1.565)	0.972		
f	>0.28 vs. ≤0.28	0.598(0.399,0.895)	0.012	0.818(0.517,1.294)	0.391
DDC	>1.5 vs. ≤1.5	1.390(0.903,2.140)	0.135		
α	>0.86 vs. ≤0.86	1.441(0.872,2.382)	0.154		