

Supplementary Table 2. Adjuvant treatment by subgroup (n = 449)

Characteristic	Adjuvant treatment		P-value
	No	Yes	
No. of patients	338	111	
Sex			0.097
Male	226 (66.9)	84 (75.7)	
Female	112 (33.1)	27 (24.3)	
Age (yr)	65.52 ± 8.377	62.53 ± 8.142	0.001
Biliary drainage	244 (72.2)	85 (76.6)	0.389
Portal vein embolization	54 (16.0)	23 (20.7)	0.249
ASA PS classification			0.012
I	60 (17.8)	15 (13.5)	
II	241 (71.3)	94 (84.7)	
III	36 (10.7)	2 (1.8)	
IV	1 (0.3)	0 (0)	
Bismuth type			0.172
I	17 (5.0)	5 (4.5)	
II	53 (15.7)	14 (12.6)	
IIIa	168 (49.7)	53 (47.7)	
IIIb	56 (16.6)	14 (12.6)	
IV	44 (13.0)	25 (22.5)	
Operation type			0.642
BD resection	17 (5.0)	8 (7.2)	
HB resection	319 (94.4)	102 (91.9)	
PD	2 (0.6)	1 (0.9)	
Portal vein resection	42 (12.4)	12 (10.8)	0.542
Resection margin, positive	16 (4.7)	27 (24.3)	<0.001
Lymphovascular invasion			0.006
No	127 (37.6)	37 (33.3)	
Yes	96 (28.4)	49 (44.1)	
Unknown	115 (34.0)	25 (22.5)	
Perineural invasion			0.015
No	42 (13.4)	6 (5.4)	
Yes	247 (73.1)	96 (86.5)	
Unknown	49 (14.5)	9 (8.1)	
Recurrence	199 (58.9)	70 (63.1)	0.733
T stage			0.010
0, 1	38 (11.2)	2 (1.8)	
2	259 (76.6)	95 (85.6)	
3, 4	38 (11.2)	13 (11.7)	
N stage			<0.001
0	243 (71.9)	51 (45.9)	
1	65 (19.2)	36 (32.4)	
2	16 (4.7)	20 (18.0)	
Follow-up (mo)	39.01 ± 37.46	29.98 ± 27.58	0.007
Hospital stay (day)	17.17 ± 11.89	14.85 ± 6.80	0.012
CD grade			0.264
<III	197 (58.3)	71 (64.0)	
≥III	141 (41.7)	39 (32.4)	
Stage			<0.001
0	1 (0.3)	0 (0)	
I	33 (9.8)	2 (1.8)	
II	189 (55.9)	45 (40.5)	
IIIA	18 (5.3)	4 (3.6)	
IIIB	3 (0.9)	0 (0)	
IIIC	65 (19.2)	36 (32.4)	
IVA	16 (4.7)	20 (18.0)	

Supplementary Table 2. Continued

Characteristic	Adjuvant treatment		P-value
	No	Yes	
Tumor biology			0.023
WD	44 (13.0)	6 (5.5)	
MD	172 (50.9)	76 (68.5)	
PD	79 (23.4)	21 (18.9)	
CA19-9 (U/mL)			0.116
<37	146 (43.2)	38 (34.2)	
≥37	84 (54.4)	69 (62.2)	

Values are presented as number only, number (%), or mean ± standard deviation.

ASA PS, American Society of Anesthesiologists physical status; BD, bile duct; HB, hepatobiliary; PD, pancreaticoduodenectomy; T, tumor; N, node; CD, Clavien-Dindo complication classification; WD, well differentiated; MD, moderately differentiated; PD, poorly differentiated.