

**Supplementary Table 1.** Patient characteristics in nCRT (-) and aCTx (+) group for locally advanced rectal cancer patients

Variable	AL (+) (n = 37)	AL (-) (n = 548)	P-value
Age (yr)			0.392
<65	28 (75.7)	378 (69.0)	
≥65	9 (24.3)	170 (31.0)	
Sex			0.114
Male	28 (75.7)	344 (62.8)	
Female	9 (24.3)	204 (37.2)	
Preoperative CEA level (ng/mL)			0.867
<5	29 (78.4)	423 (77.2)	
≥5	8 (21.6)	125 (22.8)	
Cancer obstruction			0.136
Yes	8 (21.6)	71 (13.0)	
No	29 (78.4)	477 (87.0)	
Cancer perforation			0.547
Yes	1 (2.7)	11 (2.0)	
No	36 (97.3)	537 (98.0)	
Diverting stoma			0.145
Yes	2 (5.4)	83 (15.1)	
No	35 (94.6)	465 (84.9)	
Location of tumor			0.284
Upper	2 (5.4)	135 (24.6)	
Middle	34 (91.9)	350 (63.9)	
Lower	1 (2.7)	63 (11.5)	
Pathologic stage			0.635
II	7 (18.9)	122 (22.3)	
III	30 (81.1)	426 (77.7)	
Cell type			0.075
WD/MD	31 (83.8)	505 (92.2)	
PD/MUC/SRC	6 (16.2)	43 (7.8)	
Lymphatic invasion			0.165
Yes	23 (62.2)	276 (50.4)	
No	14 (37.8)	272 (49.6)	
Vascular invasion			0.221
Yes	12 (32.4)	129 (23.5)	
No	25 (67.6)	419 (76.5)	
Perineural invasion			0.896
Yes	16 (43.2)	243 (44.3)	
No	21 (56.8)	305 (55.7)	
Tumor budding			0.517
Yes	23 (62.2)	369 (67.3)	
No	14 (37.8)	179 (32.7)	

Values are presented as number (%).

nCRT, neoadjuvant chemoradiotherapy; aCTx, adjuvant chemotherapy; AL, anastomotic leakage; WD, well differentiated; MD, moderately differentiated; PD, poorly differentiated; MUC, mucinous carcinoma; SRC, signet ring cell carcinoma.