

Supplementary Table 1

Univariate and multivariate logistic regression analysis of variables for AL

Variables	Univariate		Univariate	
	OR (95% CI)	P value	OR (95% CI)	P value
Age	0.986(0.955-1.018)	0.378		
Operative time	1.008(1.001-1.015)	0.026		
Laparoscopic surgery	0.658(0.107-4.050)	0.652		
Location of tumor	0.970(0.886-1.062)	0.405		
Intraperitoneal chemotherapy	1.260(0.647-0.456)	0.497		
Cleansing enema	1.228(0.594-2.539)	0.579		
Indwelling trans-anal tube	0.466(0.151-1.432)	0.182		
Indwelling drainage tube,	1.542(0.418-5.691)	0.516		
Tumorous obstruction	6.417(0.754-54.606)	0.089		
Cigarette smoking	1.831(0.950-3.529)	0.071		
Alcohol use	1.684(0.784-3.6180)	0.182		
Hypertension	0.934(0.452-1.928)	0.853		
Diabetes	1.116(0.445-2.830)	0.815		
Previous abdominal surgery	0.417(0.138-1.263)	0.122		
Preoperative antibiotics	0.480(0.116-1.992)	0.312		
Hemoglobin	0.975(0.959-0.992)	0.005		
Albumin	0.872(0.802-0.9480)	0.001	0.877(0.777-0.989)	0.032
Neoadjuvant	3.080(0.313-30.275)	0.335		
Tumor size	2.186(1.613-2.961)	<0.001	1.439(1.021-2.027)	0.038
ASA	2.159(1.141-4.084)	0.018		
Stages	5.902(3.284-10.608)	<0.001	4.676(2.325-9.404)	<0.001
Number of linear stapler firings	1.179(0.671-2.072)	0.566		
Stoma	0.870(0.418-1.809)	0.709		
AC	1.002(0.999-1.005)	0.122		
SFA	0.989(0.950-1.030)	0.599		
SFT	1.002(0.996-1.007)	0.568		
SMA	1.004(0.994-1.004)	0.408		
SMI	1.012(0.979-1.045)	0.480		
VFA	1.007(1.002-1.012)	0.010	1.009(1.002-1.016)	0.013
APD	0.976(0.962-0.990)	0.001	0.980(0.961-0.999)	0.040
TD	0.978(0.965-0.978)	0.002	0.974(0.955-0.995)	0.013

AL, Anastomotic leakage; ASA, American society of Anesthesiologists score; AC, abdominal circumference; SFA, subcutaneous fat area; SFT, subcutaneous fat thickness; SMA, skeletal muscle area; SMI, skeletal muscle index (SMA/height²); VFA, visceral fat area; APD, anterior to posterior diameter of abdominal cavity; TD, transvers diameter of abdominal cavity.