

Supplemental Table 1 Univariate Analyses of Risk Factors Associated with Anastomotic Leakage After Radical Gastrectomy.

Factors	Univariate analysis	
	OR(95%CI)	p
Age, yrs		
<65	Reference	<0.001
≥65	2.210 (1.428-3.420)	
Sex		
Male	Reference	0.277
Female	1.297 (0.812-2.074)	
BMI, kg/m²		
<25	Reference	0.065
≥25	1.615 (0.970-2.688)	
History of abdominal		
No	Reference	0.649
Yes	1.144 (0.640-2.045)	
Tumor site		
Upper	Reference	0.233
Middle	0.979 (0.543-1.766)	
Lower	0.629 (0.359-1.100)	0.104
≥2 areas	1.161 (0.592-2.279)	
Malnourished		
No	Reference	<0.001
Yes	2.587 (1.535-4.360)	
Tumor size, cm		
≤5	Reference	0.320
> 5	1.258 (0.800-1.979)	
AJCC-TNM stage, 8th		
I	Reference	0.417
II	1.290 (0.684-2.435)	
III	1.452 (0.835-2.525)	0.186
Comorbidities		
No	Reference	0.016
Yes	1.718 (1.108-2.666)	
HB, g/dL		
≥90	Reference	0.015
<90	1.986 (1.141-3.457)	
ASA		
I-II	Reference	0.053

III-IV	2.177 (0.989-4.795)	
Operation method		
Open	Reference	0.839
Laparoscopic	0.942 (0.527-1.682)	
Type of resection		
Subtotal gastrectomy	Reference	0.041
Total gastrectomy	1.614 (1.020-2.555)	
Type of reconstruction		
Roux-en-Y	Reference	0.086
Billroth I	1.082 (0.674-1.737)	0.744
Billroth II	0.083 (0.011-0.601)	0.014
Other	1.419 (0.338-5.950)	0.632
Surgical durations, min (SD)		
≤180	Reference	0.371
> 180	1.222 (0.788-1.895)	
Intraoperative blood loss, ml		
≤50	Reference	0.123
>50	1.413 (0.911-2.191)	

Body mass index(BMI), hemoglobin (HB), American Society of Anesthesiologists (ASA)

Supplemental Table 2 Clinical characteristics of the deaths with Anastomotic Leakage after Radical Gastrectomy for Gastric Cancer.

No	Sex	Age	Year of operation	Gastrectomy	Reconstruction	pTNM	Time of occurrence of AL	Cause	Treatment	Postoperative death time
1	Male	63	2010	OTG	Roux-en-Y	T4aN3bM0	2	AL, Multiple organ failure	Reoperation	6
2	Male	49	2012	LATG	Roux-en-Y	T4aN0M0	6	AL, Intraabdominal bleeding	Reoperation	30
3	Male	61	2012	OTG	Roux-en-Y	T4bN3aM0	5	AL, Acute respiratory failure	Conservative treatment	15
4	Male	79	2013	LADG	Billroth I	T4aN2M0	9	AL, Intraabdominal bleeding	Conservative treatment	34
5	Male	80	2013	OTG	Roux-en-Y	T4aN3bM0	4	AL, Sepsis	Conservative treatment	21
6	Male	77	2012	LADG	Billroth I	T4aN2M0	7	AL, Intraabdominal bleeding	Reoperation	38
7	Female	48	2015	LATG	Roux-en-Y	T4bN2M0	8	AL, Cerebral infarction	CT-scan-guided puncture drainage	66

Anastomotic leakage (AL), open total gastrectomy (OTG), laparoscopic-assisted total gastrectomy (LATG), laparoscopic-assisted distal gastrectomy (LADG)

