

Table2 Univariate and multivariate logistic regression analysis of SSI in training cohorts

Variables	Univariate analysis		Multivariate analysis	
	OR (95%CI)	P-value	OR (95%CI)	P-value
Gender		0.251		
Male	1			
female	0.68(0.35-1.31)			
Age (years)		< 0.001		0.002
< 65year	1		1	
≥ 65year	2.93(1.70-5.05)		2.53(1.40-4.58)	
BMI (kg/m ²)		0.534		
< 25	1			
≥ 25	1.22(0.66-2.25)			
Hypertension		0.444		
No	1			
Yes	1.30(0.66-2.54)			
Diabetes mellitus		0.112		
No	1			
Yes	0.20(0.03-1.46)			
Cardiovascular disease		0.960		
No	1			
Yes	1.03(0.39-2.69)			
Pulmonary disease		0.118		
No	1			
Yes	0.20(0.03-1.50)			
Abdominal surgery history		0.429		
No	1			
Yes	0.70(0.29-1.69)			
ASA	0.59(0.25-1.40)	0.227		
1				
2				
3				
Preoperative white blood cell count($\times 10^9/L$)		0.513		
< 4	1			
≥ 4	1.28(0.61-2.68)			
Preoperative lymphocyte count($\times 10^9/L$)		0.205		
< 0.8	1			
≥ 0.8	0.59(0.27-1.33)			
Preoperative hemoglobin(g/L)		0.362		
< 110	1			
≥ 110	0.78(0.46-1.33)			
Preoperative albumin(g/L)		0.180		
< 30	1			
≥ 30	0.53(0.21-1.34)			

Operation time (min)		< 0.001	9.12(4.59-18.12)	< 0.001
< 280	1			
≥ 280	5.70(3.26-9.94)			
Blood loss (ml)		0.626		
< 100	1			
≥ 100	1.15(0.65-2.05)			
Operation method		0.018		
Robotic-assisted surgery	1		1	
Laparoscopic surgery	1.19(0.58-2.45)	0.632	1.71(0.78-3.73)	0.178
Open surgery	2.23(1.09-4.58)	0.028	6.07(2.53-14.55)	< 0.001
Total gastrectomy		< 0.001		0.013
No	1		1	
Yes	3.41(1.93-6.03)		2.18(1.18-4.03)	
Reconstruction		0.003		
B-I	1			
B-II	0.59(0.21-1.67)	0.322		
Roux-en-Y	2.25(0.92-5.50)	0.075		
other	1.30(0.24-6.97)	0.762		
Combined resection		0.022		
No	1			
Yes	2.25(1.13-4.49)			
Lymphadenectomy		0.278		
D1	1			
D2	2.23(0.52-9.48)			
Tumor location		0.245		
Lower				
Middle	0.84(0.45-1.59)	0.602		
Upper	1.60(0.85-3.03)	0.145		
Tumor diameter		0.001		0.017
< 5	1		1	
≥ 5	2.40(1.41-4.10)		2.05(1.14-3.68)	
Tumor stage	1.57(1.09-2.26)	0.014		
1				
2				
3				
perioperative blood transfusion		0.606		
No	1			
Yes	1.17(0.65-2.11)			
Duration of prophylactic antibiotics		0.769		
≤ 2 days	1			
> 2 days	1.09(0.61-1.96)			

ASA, American Society of Anesthesiologist; BMI, Body Mass Index; SSI, surgical site infection