

Supplement Table 1 Univariate Cox regression of all candidate variables

	Total	Univariate	
	<i>n</i> (%)	HR (95% CI)	<i>P</i> value
Age^a		1.08 (1.02, 1.14)	0.005
Age			
80-89	269 (91.19)	Ref.	
90-99	26 (8.81)	1.31 (0.63, 2.73)	0.47
ASA classification			
1/2/3	279 (94.58)	Ref.	
4	16 (5.42)	1.73 (0.63, 4.77)	0.29
BMI (kg/m²)			
≥ 18.5	252 (85.42)	Ref.	
< 18.5	43 (14.58)	1.93 (1.12, 3.33)	0.02
Smoking			
No	281 (95.25)	Ref.	
Yes	14 (4.75)	1.86 (0.80, 4.29)	0.15
Congestive heart failure within 30 days			
No	289 (97.97)	Ref.	
Yes	6 (2.03)	0.70 (0.10, 5.08)	0.73
COPD			
No	291 (98.64)	Ref.	
Yes	4 (1.36)	3.18 (1.00, 10.1)	0.05
Hypertension requiring medication			
No	72 (24.41)	Ref.	
Yes	223 (75.59)	0.48 (0.30, 0.77)	0.003
Diabetes mellitus			
No	217 (73.56)	Ref.	
Yes	78 (26.44)	1.15 (0.70, 1.92)	0.58
CCI^a		1.34 (1.21, 1.48)	< 0.001
Immunosuppressive therapy			
No	292 (98.98)	Ref.	
Yes	3 (1.02)	2.32 (0.56, 9.54)	0.24
Bleeding disorder			
No	287 (97.29)	Ref.	
Yes	8 (2.71)	2.13 (0.78, 5.86)	0.14
Preoperative dialysis dependent			
No	291 (98.64)	Ref.	
Yes	4 (1.36)	1.05 (0.15, 7.59)	0.96
Preoperative transfusion within 72 h			
No	271 (91.86)	Ref.	
Yes	24 (8.14)	1.93 (0.93, 4.04)	0.08
Preoperative sepsis			
No	266 (90.17)	Ref.	
Yes	29 (9.83)	1.74 (0.91, 3.30)	0.09
Serum albumin (g/dL)			
≥ 3.0	261 (88.48)	Ref.	
2.5-3.0	27 (9.15)	1.75 (0.90, 3.44)	0.10

< 2.5	7 (2.37)	7.15 (2.82, 18.2)	< 0.001
Priority of operation			
Elective	206 (69.83)	Ref.	
Emergency	89 (30.17)	1.81 (1.13, 2.88)	0.01
Method of operation			
Open	135 (45.76)	Ref.	
Minimally Invasive Surgery (MIS)	160 (54.24)	0.56 (0.35, 0.89)	0.01
Type of operation			
Right hemicolectomy (RH)	110 (37.29)	Ref.	
Left hemicolectomy (LH)	8 (2.71)	1.13 (0.34, 3.69)	0.84
High anterior resection (HAR)	86 (29.15)	0.67 (0.37, 1.23)	0.20
Low anterior resection (LAR)	52 (17.63)	0.52 (0.25, 1.08)	0.08
Subtotal/Total colectomy	13 (4.40)	1.73 (0.67, 4.47)	0.26
Abdominoperineal resection (APR)	12 (4.07)	1.18 (0.42, 3.36)	0.75
Hartmann's procedure	14 (4.75)	1.88 (0.73, 4.86)	0.19
Stoma			
No	205 (69.49)	Ref.	
Yes	90 (30.51)	1.97 (1.24, 3.12)	0.004
TNM staging			
I/II/III	278 (94.24)	Ref.	
IV	17 (5.76)	3.95 (2.07, 7.55)	< 0.001
Postoperative surgical site infection (SSI)			
No	257 (87.12)	Ref.	
Yes	38 (12.88)	1.45 (0.78, 2.70)	0.24
Postoperative wound disruption			
No	294 (99.66)	Ref.	
Yes	1 (0.34)	3.88 (0.54, 28.1)	0.18
Postoperative pneumonia			
No	276 (93.56)	Ref.	
Yes	19 (6.44)	3.46 (1.77, 6.78)	< 0.001
Postoperative unplanned intubation			
No	287 (97.29)	Ref.	
Yes	8 (2.71)	3.49 (1.27, 9.64)	0.02
Postoperative pulmonary embolism			
No	290 (98.31)	Ref.	
Yes	5 (1.69)	2.38 (0.58, 9.75)	0.23
Postoperative renal insufficiency			
No	292 (98.98)	Ref.	
Yes	3 (1.02)	1.17 (0.16, 8.45)	0.88
Postoperative urinary tract infection (UTI)			
No	283 (95.93)	Ref.	
Yes	12 (4.07)	1.80 (0.65, 4.93)	0.26
Postoperative Stroke/Cerebral Vascular Accident (CVA)			
No	288 (97.63)	Ref.	
Yes	7 (2.37)	2.05 (0.50, 8.41)	0.32
Postoperative myocardial infarction			
No	288 (97.63)	Ref.	
Yes	7 (2.37)	6.01 (2.17, 16.6)	< 0.001

Postoperative transfusion within 72 h			
No	239 (81.02)	Ref.	
Yes	56 (18.98)	1.05 (0.57, 1.91)	0.89
Postoperative venous thrombosis requiring therapy			
No	290 (98.31)	Ref.	
Yes	5 (1.69)	1.82 (0.45, 7.44)	0.40
Postoperative anastomotic leak			
No	289 (97.97)	Ref.	
Yes	6 (2.03)	2.12 (0.66, 6.74)	0.21
Postoperative sepsis			
No	283 (95.93)	Ref.	
Yes	12 (4.07)	3.18 (1.45, 6.96)	0.004
Postoperative sepsis shock			
No	289 (97.97)	Ref.	
Yes	6 (2.03)	1.47 (0.36, 6.02)	0.59

^aContinuous variables

Categorical variables were presented as *n* (%).

Bold values indicate statistical significance at the $P < 0.05$ level.

HR: hazard ratio; CI: confidence interval; ASA: American Society of Anaesthesiologists classification; BMI: body mass index; COPD: chronic obstructive pulmonary disease; CCI: Charlson Comorbidity Index; TNM: tumor-node-metastasis.