

**Supplemental Digital Content 4. Univariable and multivariable logistic regression analysis of constipation and fecal incontinence**

Variables	Constipation				Fecal incontinence			
	Univariable		Multivariable		Univariable		Multivariable	
	OR (95% CI)	<i>p</i> value	OR (95% CI)	<i>p</i> value	OR (95% CI)	<i>p</i> value	OR (95% CI)	<i>p</i> value
<b>Type of colectomy</b>								
Right hemicolectomy	Reference		Reference		Reference		Reference	
Left hemicolectomy	1.24 (0.81–1.89)	0.326	1.54 (0.94–2.52)	0.090	0.89 (0.57–1.39)	0.602	1.17 (0.72–1.91)	0.532
Sigmoid colon resection	2.10 (1.52–2.90)	<0.001**	2.92 (1.80–4.75)	<0.001**	0.64 (0.43–0.95)	0.028*	0.77 (0.49–1.21)	0.259
<b>Sex</b>								
Men	Reference		Reference		Reference		Reference	
Women	1.39 (1.05–1.86)	0.023*	1.43 (1.02–1.99)	0.038*	1.45 (1.06–1.98)	0.021*	1.46 (1.03–2.07)	0.036*
<b>Age at surgery (years)</b>	1.02 (1.00–1.03)	0.036*	1.02 (1.00–1.04)	0.037*	1.01 (1.00–1.03)	0.150	1.02 (1.00–1.03)	0.123
<b>Follow-up (months)</b>	1.00 (1.00–1.01)	0.559	1.01 (1.00–1.02)	0.050	1.00 (1.00–1.01)	0.348	1.01 (1.00–1.01)	0.203
<b>BMI at surgery (kg/m<sup>2</sup>)</b>	1.02 (0.99–1.06)	0.162	-	-	1.01 (0.97–1.05)	0.631	-	-
<b>ASA score at surgery</b>	1.24 (0.98–1.55)	0.068	1.26 (0.96–1.66)	0.089	1.19 (0.93–1.53)	0.175	-	-
<b>Charlson comorbidity index at surgery</b>	1.09 (0.90–1.32)	0.396	-	-	1.19 (0.97–1.46)	0.088	1.19 (0.95–1.48)	0.128
<b>Previous lower abdominal surgery</b>								
No	Reference		Reference		Reference		-	-
Yes	1.38 (1.02–1.85)	0.035*	1.18 (0.84–1.66)	0.333	1.30 (0.94–1.80)	0.110	-	-
<b>Previous upper abdominal surgery</b>								
No	Reference		Reference		Reference		-	-
Yes	0.30 (0.13–0.71)	0.006*	0.31 (0.13–0.75)	0.009*	1.06 (0.57–1.98)	0.849	-	-

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<b>Smoking</b>								
No	Reference		Reference		Reference		Reference	
Yes or recently quit	0.66 (0.43–1.01)	0.057	0.85 (0.54–1.34)	0.484	1.52 (1.02–2.28)	0.039*	1.68 (1.10–2.56)	0.017*
<b>Tumor stage (UICC)</b>								
I - II	Reference		-	-	Reference		-	-
III - IV	1.00 (0.74–1.35)	0.992	-	-	1.03 (0.74–1.44)	0.856	-	-
<b>Distant metastasis</b>								
No	Reference		-	-	Reference		-	-
Yes	0.58 (0.27–1.24)	0.160	-	-	1.35 (0.70–2.61)	0.371	-	-
<b>Radiotherapy</b>								
No	Reference		-	-	Reference		Reference	
Yes	0.85 (0.32–2.29)	0.754	-	-	2.28 (0.98–5.32)	0.057	2.92 (1.20–7.08)	0.018*
<b>Adjuvant chemotherapy</b>								
No	Reference		-	-	Reference		-	-
Yes	0.94 (0.68–1.29)	0.690	-	-	1.12 (0.80–1.58)	0.509	-	-
<b>Type of chemotherapy</b>								
No	Reference		-	-	Reference		-	-
CAPOX	0.95 (0.63–1.44)	0.803	-	-	0.95 (0.60–1.52)	0.829	-	-
FOLFOX	0.70 (0.41–1.22)	0.208	-	-	1.33 (0.79–2.23)	0.280	-	-
Capecitabine	1.34 (0.73–2.44)	0.341	-	-	1.20 (0.61–2.38)	0.601	-	-
<b>Years since last chemotherapy</b>	0.98 (0.90–1.07)	0.654	-	-	1.04 (0.97–1.13)	0.269	-	-
<b>Setting</b>								
Elective	Reference		-	-	Reference		Reference	
Emergency	1.32 (0.84–2.07)	0.225	-	-	0.57 (0.31–1.05)	0.073	0.56 (0.27–1.14)	0.108
<b>Surgical approach</b>								
Open	Reference		Reference		Reference		-	-
Laparoscopic	1.41 (1.0–1.90)	0.027*	1.35 (0.96–1.91)	0.087	0.94 (0.67–1.31)	0.698	-	-
Conversion	1.34 (0.80–2.24)	0.263	1.45 (0.81–2.58)	0.207	1.03 (0.58–1.81)	0.922	-	-

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<b>Method of anastomosis</b>								
Handsewn	Reference		-	-	Reference		-	-
Stapled	1.11 (0.83–1.49)	0.488			0.77 (0.56–1.08)	0.127		
<b>Type of anastomosis</b>								
Side-to-end	Reference		Reference		Reference		-	-
Side-to-side	0.58 (0.40–0.85)	0.005**	1.09 (0.65–1.84)	0.734	1.05 (0.67–1.65)	0.816		
End-to-end	0.66 (0.39–1.12)	0.120	0.89 (0.49–1.61)	0.697	0.91 (0.49–1.69)	0.769		
<b>Temporary stoma</b>								
No	Reference		-	-	Reference		Reference	
Yes	1.17 (0.68–2.00)	0.571			0.46 (0.21–1.02)	0.056	0.76 (0.32–1.79)	0.758
<b>Anastomotic leakage</b>								
No	Reference		-	-	Reference		-	-
Yes	1.19 (0.61–2.32)	0.606			1.12 (0.54–2.35)	0.760		
<b>Reoperation</b>								
No	Reference		-	-	Reference		-	-
Yes	1.21 (0.72–2.05)	0.472			1.12 (0.63–2.01)	0.702		

\* Statistical significance of  $p < 0.05$

\*\* Statistical significance of  $p < 0.005$

Abbreviations: CI, Confidence Interval; ASA, American Society of Anesthesiologists; UICC, Union for International Cancer Control.