

Appendix 1. Factors Evaluated for Association With Accordion Classification Complication Grade ≥ 3 Among 1,269 of the 1,318 Patients in the Post-Robotic Cohort With Sufficient Postoperative Follow-up

Characteristic ^a	No. (%) of Patients With Outcome	Univariable Analysis		Multivariable Analysis	
		Unadjusted OR (95% CI)	P Value	Adjusted OR (95% CI)	P Value
Age, y ^b	—	0.88 (0.60-1.30)	.51		
BMI, kg/m ²			.65		
<25	9/356 (2.5)	Reference			
25-29	9/335 (2.7)	1.06 (0.42-2.72)			
30-39	5/357 (1.4)	0.55 (0.18-1.65)			
≥ 40	4/152 (2.6)	1.04 (0.32-3.44)			
Unknown	3/69 (4.4)	—			
History of laparotomy			.89		
No	16/713 (2.2)	Reference			
Yes	10/421 (2.4)	1.06 (0.48-2.36)			
Unknown	4/135 (3.0)	—			
Cesarean section parity			.61		
No	24/962 (2.5)	Reference			
Yes	6/303 (2.0)	0.79 (0.32-1.95)			
Unknown	0/4 (0)	—			
Parity			.21		
Parous	22/1,040 (2.1)	Reference			
Nulliparous	8/228 (3.5)	1.68 (0.74-3.83)			
Unknown	0/1 (0)				
ASA score			.11		
≤ 2	22/1,054 (2.1)	Reference			
> 2	7/169 (4.1)	2.03 (0.85-4.82)			
Unknown	1/46 (2.2)	—			
Smoking history			.26		
Never	16/683 (2.3)	Reference			
Current	2/205 (1.0)	0.41 (0.09-1.80)			
Former	12/370 (3.2)	1.40 (0.65-2.99)			

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Unknown	0/11 (0)	—		
Past medical history				
Diabetes mellitus				.57
No	29/1,196 (2.4)	Reference		
Yes	1/73 (1.4)	0.56 (0.08-4.16)		
Thyroid disease				.55
No	27/1,095 (2.5)	Reference		
Yes	3/174 (1.7)	0.69 (0.21-2.31)		
CAD				.96
No	30/1,251 (2.4)	Reference		
Yes	0/18 (0)	1.08 (0.06-19.82)		
Hypertension				.54
No	26/1,046 (2.5)	Reference		
Yes	4/223 (1.8)	0.72 (0.25-2.08)		
Hyperlipidemia				.30
No	28/1,103 (2.5)	Reference		
Yes	2/166 (1.2)	0.47 (0.11-1.98)		
DVT/PE				.95
No	29/1,224 (2.4)	Reference		
Yes	1/45 (2.2)	0.94 (0.13-7.03)		
Asthma				.52
No	28/1,139 (2.5)	Reference		
Yes	2/130 (1.5)	0.62 (0.15-2.63)		
Stroke/TIA				.02
No	28/1,252 (2.2)	Reference	Reference	.03
Yes	2/17 (11.8)	5.83 (1.27-26.72)	5.54 (1.18-26.15)	
Anemia				.75
No	24/1,043 (2.3)	Reference		
Yes	6/226 (2.7)	1.16 (0.47-2.87)		
Irritable bowel disease				.90
No	30/1,253 (2.4)	Reference		
Yes	0/16 (0)	1.21 (0.07-22.60)		
GERD				.12

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No	24/1,130 (2.1)	Reference		
Yes	6/139 (4.3)	2.08 (0.84-5.18)		
IBS			.90	
No	29/1,221 (2.4)	Reference		
Yes	1/48 (2.1)	0.88 (0.12-6.56)		
Preoperative hemoglobin			.39	
<12 g/dl	8/254 (3.2)	Reference		
≥12 g/dl	21/947 (2.2)	0.70 (0.31-1.59)		
Unknown	1/68 (1.5)	—		
Preoperative creatinine			.82	
<1.2 mg/dL	27/1,154 (2.3)	Reference		
≥1.2 mg/dL	0/14 (0)	1.41 (0.08-26.81)		
Unknown	3/101 (3.0)	—		
Operative time ^b	—	1.40 (1.04-1.88)	.03	
Route of hysterectomy			.008	.009
Vaginal	7/664 (1.1)	Reference		Reference
Abdominal	7/147 (4.8)	4.69 (1.62-13.59)		4.58 (1.58-13.33)
Robotic	16/458 (3.5)	3.40 (1.39-8.33)		3.40 (1.39-8.34)

Abbreviations: ASA, American Society of Anesthesiologists; BMI, body mass index; CAD, coronary artery disease; DVT/PE, deep vein thrombosis/pulmonary embolism; GERD, gastroesophageal reflux disease; IBS, irritable bowel syndrome; OR, odds ratio; TIA, transient ischemic attack.

^a The results for the following characteristics with an overall prevalence of <1% are not reported in the table: myocardial infarction, chronic obstructive pulmonary disease/emphysema, diverticulitis, and diverticulosis.

^b OR per 10-y increase in age and per 60-minute increase in operative time.

Appendix 2. Factors Evaluated for an Association With Postoperative Surgical Site Infection Among 1,269 of the 1,318 Patients in the Post-Robotic Cohort With Sufficient Postoperative Follow-up

Characteristic ^a	No. (%) of Patients With Outcome	Univariable Analysis		Multivariable Analysis	
		Unadjusted OR (95% CI)	<i>P</i> Value	Adjusted OR (95% CI)	<i>P</i> Value
Age, y ^b	--	0.76 (0.51-1.15)	.19		
BMI, kg/m ²			.01		
<25	4/356 (1.1)	Reference			
25-29	6/335 (1.8)	1.61 (0.45-5.74)			
30-39	8/357 (2.2)	2.02 (0.60-6.76)			
≥40	10/152 (6.6)	6.20 (1.91-20.09)			
Unknown	1/69 (1.5)	—			
History of laparotomy			.14		
No	11/713 (1.5)	Reference			
Yes	12/421 (2.9)	1.87 (0.82-4.28)			
Unknown	6/135 (4.4)	—			
Cesarean section parity			.02		
No	16/962 (1.7)	Reference			
Yes	12/303 (4.0)	2.44 (1.14-5.21)			
Unknown	1/4 (25.0)	—			
Parity			.18		
Parous	21/1,040 (2.0)	Reference			
Nulliparous	8/228 (3.5)	1.77 (0.77-4.04)			
Unknown	0/1 (0)				
ASA score			.001		.005
≤2	17/1,054 (1.6)	Reference		Reference	
>2	11/169 (6.5)	4.25 (1.95-9.23)		3.77 (1.70-8.35)	
Unknown	1/46 (2.2)	—		--	
Smoking history			.50		
Never	15/683 (2.2)	Reference			
Current	3/205 (1.5)	0.66 (0.19-2.31)			
Former	11/370 (3.0)	1.37 (0.62-3.00)			

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Unknown	0/11 (0)	—	
Past medical history			
Diabetes mellitus			.01
No	24/1,196 (2.0)	Reference	
Yes	5/73 (6.9)	3.59 (1.33-9.70)	
Thyroid disease			.99
No	25/1,095 (2.3)	Reference	
Yes	4/174 (2.3)	1.01 (0.35-2.93)	
CAD			.03
No	27/1,251 (2.2)	Reference	
Yes	2/18 (11.1)	5.67 (1.24-25.87)	
Hypertension			.06
No	20/1,046 (1.9)	Reference	
Yes	9/223 (4.0)	2.16 (0.97-4.80)	
Hyperlipidemia			.22
No	23/1,103 (2.1)	Reference	
Yes	6/166 (3.6)	1.76 (0.71-4.39)	
DVT/PE			.33
No	27/1,224 (2.1)	Reference	
Yes	2/45 (4.4)	2.06 (0.48, 8.95)	
Asthma			.02
No	22/1,139 (1.9)	Reference	
Yes	7/130 (5.4)	2.89 (1.21-6.90)	
Stroke/TIA			.34
No	28/1,252 (2.2)	Reference	
Yes	1/17 (5.9)	2.73 (0.35-21.32)	
Anemia			.17
No	21/1,043 (2.0)	Reference	
Yes	8/226 (3.5)	1.79 (0.78-4.09)	
Irritable bowel disease			.31
No	28/1,253 (2.2)	Reference	
Yes	1/16 (6.3)	2.92 (0.37-22.85)	
GERD			.10

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No	23/1,130 (2.0)	Reference			
Yes	6/139 (4.3)	2.17 (0.87-5.43)			
IBS					.38
No	27/1,221 (2.2)	Reference			
Yes	2/48 (4.2)	1.92 (0.44-8.33)			
Preoperative hemoglobin					.06
<12 g/dl	10/254 (3.9)	Reference			
≥12 g/dl	18/947 (1.9)	0.47 (0.22-1.04)			
Unknown	1/68 (1.5)	—			
Preoperative creatinine					.85
<1.2 mg/dL	29/1,154 (2.5)	Reference			
≥1.2 mg/dL	0/14 (0)	1.32 (0.07-24.91)			
Unknown	0/101 (0)	—			
Operative time ^b	—	1.83 (1.39-2.40)	<.001	1.51 (1.02-2.24)	.04
Route of hysterectomy			<.001		.006
Vaginal	2/664 (0.3)	Reference		Reference	
Abdominal	7/147 (4.8)	16.55 (3.40-80.51)		13.60 (2.77-66.74)	
Robotic	20/458 (4.4)	15.11 (3.52-64.99)		7.50 (1.52-37.06)	

Abbreviations: ASA, American Society of Anesthesiologists; BMI, body mass index; CAD, coronary artery disease; DVT/PE, deep vein thrombosis/pulmonary embolism; GERD, gastroesophageal reflux disease; IBS, irritable bowel syndrome; OR, odds ratio; TIA, transient ischemic attack.

^a The results for the following characteristics with an overall prevalence of <1% are not reported in the table: myocardial infarction, chronic obstructive pulmonary disease/emphysema, diverticulitis, and diverticulosis.

^b OR per 10-y increase in age and per 60-minute increase in operative time.