

Supplementary Online Contents

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eTable 1. Distribution of early and late complications before and after propensity score matching

Variables	Entire cohort			Matched cohort		
	Robot (n=74)	Laparoscopy (n=321)	<i>P</i>	Robot (n=74)	Laparoscopy (n=74)	<i>P</i>
Total early complication -subject experience	23 (31.1)	80 (24.9)	0.304	23 (31.1)	23 (31.1)	>0.999
Local complication	17 (23.0)	54 (16.8)	0.240	17 (23.0)	20 (27.0)	0.705
Intra-abdominal fluid collection	1 (1.4)	4 (1.2)		1 (1.4)	1 (1.4)	
Intra-abdominal bleeding	1 (1.4)	6 (1.9)		1 (1.4)	1 (1.4)	
Intra-luminal bleeding	1 (1.4)	5 (1.6)		1 (1.4)	2 (2.7)	
Anastomotic leakage	3 (4.1)	7 (2.2)		3 (4.1)	5 (6.8)	
Anastomotic stricture	2 (2.7)	2 (0.6)		2 (2.7)	1 (1.4)	
Ileus	5 (6.8)	15 (4.7)		5 (6.8)	6 (8.1)	
Pancreatitis/Pancreatic fistula	2 (2.7)	4 (1.2)		2 (2.7)	1 (1.4)	
Wound	2 (2.7)	11 (3.4)		2 (2.7)	3 (4.1)	
Systemic complication	4 (5.4)	18 (5.6)	>0.999	4 (5.4)	2 (2.7)	0.681
Pulmonary	3 (4.1)	12 (3.7)		3 (4.1)	1 (1.4)	
Urinary	0 (0.0)	2 (0.6)		0 (0.0)	1 (1.4)	
Hepatic	1 (1.4)	3 (0.9)		1 (1.4)	0 (0.0)	
Cardiac	0 (0.0)	1 (0.3)		0 (0.0)	0 (0.0)	
Other complications	2 (2.7)	8 (2.5)	>0.999	2 (2.7)	1 (1.4)	>0.999
Total late complication -subject experience	9 (12.2)	33 (10.3)	0.676	9 (12.2)	7 (9.5)	0.792
Anastomotic stricture	5 (6.8)	16 (5.0)		5 (6.8)	5 (6.8)	
Intestinal obstruction	4 (5.4)	10 (3.1)		4 (5.4)	1 (1.4)	
Post-gastrectomy syndrome	0 (0.0)	5 (1.6)		0 (0.0)	1 (1.4)	
Others	0 (0.0)	2 (0.6)		0 (0.0)	0 (0.0)	

Data are expressed as n (%) unless otherwise specified.

eTable 2. Textbook outcome and each quality metric before and after propensity score matching

	Entire cohort			Matched cohort		
	Robot (n=74)	Laparoscopy (n=321)	<i>P</i>	Robot (n=74)	Laparoscopy (n=74)	<i>P</i>
No intraoperative complication	72 (97.3)	311 (96.9)	>0.999	72 (97.3)	73 (98.6)	>0.999
Negative resection margin	74 (100.0)	319 (99.4)	>0.999	74 (100.0)	74 (100.0)	NA
Retrieved lymph nodes >15	73 (98.6)	316 (98.4)	>0.999	73 (98.6)	74 (100.0)	>0.999
No severe complication (≥grade II)	57 (77.0)	261 (81.3)	0.417	57 (77.0)	57 (77.0)	>0.999
No reintervention	66 (89.2)	290 (90.3)	0.829	66 (89.2)	63 (85.1)	0.624
No readmission to ICU	72 (97.3)	314 (97.8)	0.678	72 (97.3)	71 (95.9)	>0.999
Length of hospital stay ≤21 days	70 (94.6)	314 (97.8)	0.131	70 (94.6)	70 (94.6)	>0.999
No mortality	74 (100.0)	74 (100.0)	NA	74 (100.0)	74 (100.0)	NA
No readmission 30 days after discharge	68 (91.9)	295 (91.9)	>0.999	68 (91.9)	70 (94.6)	0.745
Textbook outcome	52 (70.3)	232 (72.3)	0.775	52 (70.3)	56 (75.7)	0.579

Data are expressed as n (%) unless otherwise specified.

ICU, intensive care unit; NA, not applicable

eTable 3. Recurrence patterns before and after propensity score matching

	Entire cohort			Matched cohort		
	Robot	Laparoscopy	<i>P</i>	Robot	Laparoscopy	<i>P</i>
	(n=74)	(n=321)		(n=74)	(n=74)	
Total patients with recurrence	2 (2.7)	31 (9.7)	0.061	2 (2.7)	5 (6.8)	0.442
Hematogenous	1 (1.4)	6 (1.9)		1 (1.4)	1 (1.4)	
Peritoneal	1 (1.4)	19 (5.9)		1 (1.4)	4 (5.4)	
Distant lymph node	0 (0.0)	1 (0.3)		0 (0.0)	0 (0.0)	
Locoregional	0 (0.0)	0 (0.0)		0 (0.0)	0 (0.0)	
Mixed	0 (0.0)	5 (1.6)		0 (0.0)	0 (0.0)	

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