

Research Article

Laparoscopic versus Open Complete Mesocolic Excision for Right Colon Cancer

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TABLE 1: Tumor site, pathology, TNM stage, and comorbidities.

		Surgical approach				<i>P</i> value*
		Open surgery		Laparoscopic		
		Count	%	Count	%	
Tumor locations	Ascending colon	33	68.8	34	70.8	0.188
	Cecum	8	16.7	12	25.0	
	Hepatic flexure	7	14.6	2	4.2	
Pathological type	Well differentiated	6	12.5	9	18.8	0.451
	Moderately differentiated	29	60.4	31	64.6	
	Poorly differentiated	13	27.1	8	16.7	
TNM stage	II	19	39.6	22	45.8	0.680
	III	29	60.4	26	54.2	
Potential comorbidities	Hypertension	22	45.8	23	47.9	0.984
	Cerebrovascular disease	2	4.2	2	4.2	
	Coronary disease	7	14.6	5	10.4	
	Diabetes	10	20.8	11	22.9	
	Pulmonary insufficiency	7	14.6	7	14.6	

**P* value ≤0.05 is significant.

TABLE 2: Operative data and technical aspect according to the surgical approach.

	Surgical approach				<i>P</i> value*
	Open surgery		Laparoscopic		
	Mean	SD	Mean	SD	
Length of the surgical specimen (cm)	27.33	3.22	20.10	1.97	<0.001
Tumor size (cm)	5.63	.914	4.50	0.715	<0.001
Area of mesentery (mm ²)	15.36	1.24	14.22	0.91	<0.001
Proximal resection margin (cm)	20.27	8.821	16.58	5.870	0.018
Distal resection margin (cm)	13.44	1.809	14.83	1.894	<0.001
Incision length (cm)	18.79	3.18	6.10	0.93	<0.001
Operative time (min)	152.04	27.24	201.31	57.80	<0.001
Blood loss (mL)	264.17	67.70	189.33	74.22	<0.001
No. of LNs retrieved	32.65	12.28	39.81	16.74	0.010
Distance from the tumor to the high tie (mm)	124.44	18.61	140.42	16.78	<0.001
Distance from the nearest bowel wall to the high tie (mm)	79.96	8.84	110.71	12.36	<0.001

*P value ≤0.05 is significant.



TABLE 3: Postoperative data according to the surgical approach.

	Surgical approach				<i>P</i> value*
	Open surgery		Laparoscopic		
	Mean	SD	Mean	SD	
Pain scores	5.31	0.88	3.25	0.76	<0.001
Getting-out-of-bed time (days)	3.42	0.94	1.67	0.66	<0.001
First passage of flatus (hours)	100.48	11.63	56.77	9.51	<0.001
Time to resume liquid diet (day)	4.91	1.19	3.50	1.09	<0.001
Time of normal diet (day)	6.27	0.96	4.73	0.76	<0.001
Duration of hospital stay (day)	13.04	3.07	9.13	1.57	<0.001

**P* value ≤0.05 is significant.



TABLE 4: Postoperative complications.

		Surgical approach				<i>P</i> value*
		Open surgery		Laparoscopic		
		Count	%	Count	%	
Wound infection	No	44	91.7	47	97.9	0.362
	Yes	4	8.3	1	2.1	
Lymphatic leakage	No	47	97.9	47	97.9	1.00
	Yes	1	2.1	1	2.1	
Anastomotic leakage	No	46	95.8	47	97.9	0.557
	Yes	2	4.2	1	2.1	
Pulmonary infection	No	44	91.7	47	97.9	0.168
	Yes	4	8.3	1	2.1	
Ileus	No	40	83.3	46	95.8	0.04*
	Yes	8	16.7	2	4.2	
Deep venous thrombosis	No	45	93.8	47	97.9	0.307
	Yes	3	6.3	1	2.1	
30-day mortality	No	47	97.9	47	97.9	1.00
	Yes	1	2.1	1	2.1	
Conversion rate	No	—	—	44	91.7	NA
	Yes	—	—	4	8.3	

**P* value ≤0.05 is significant.

TABLE 5: Recurrence (local and distant) according to the surgical approach.

		Surgical approach				P value
		Open surgery		Laparoscopic		
		Count	%	Count	%	
Local recurrence	No	46	95.8	46	95.8	1.00
	Yes	2	4.2	2	4.2	
Distant metastasis	No	44	91.7	45	93.8	0.69
	Yes	4	8.3	3	6.3	

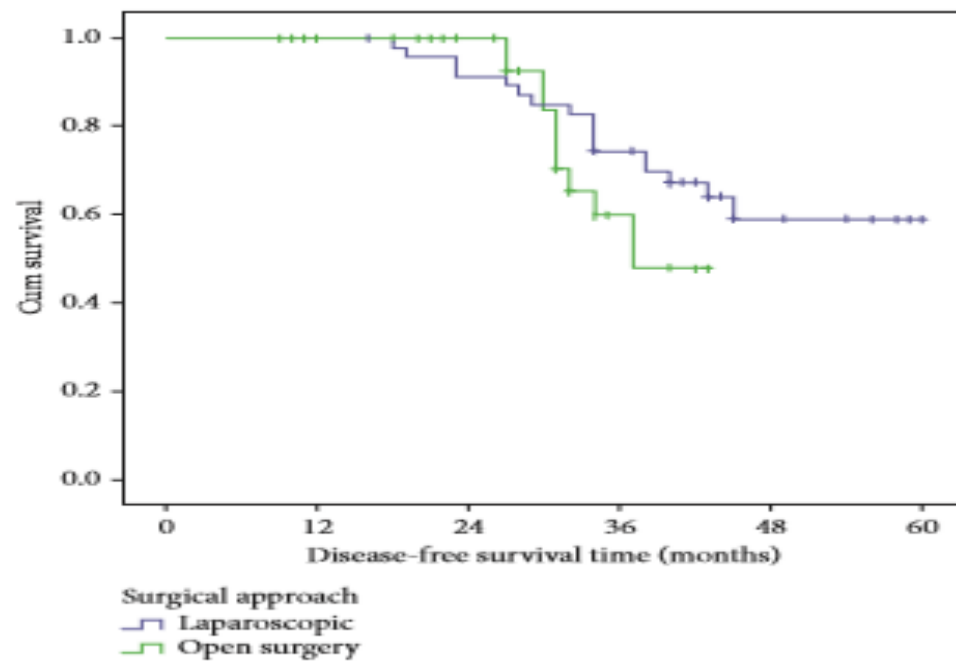


FIGURE 2: Kaplan–Meier survival function curve. It shows comparable survival rates between the 2 study groups regarding relapse-free survival rates.

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Review Article

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Ilija Golubović ^{1*}, Goran Stanojević ¹, Aleksandar Vukadinovic ¹, Marko Stojanovic ²





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Original Research Article

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**Outcomes of laparoscopic assisted versus open complete mesocolic
excision for right sided colon cancer**

**Mohammed A. Elbalshy*, Hossam Abdelkader El Fol, Mohamed S. Ammar,
Mahmoud Gamaleldeen Hagag**





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Robotic colectomy with CME versus laparoscopic colon resection with or without CME for colon cancer: a systematic review and meta-analysis

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Thank you

