

Supplementary Table 1. Baseline characteristics of patients aged 65 years and older undergoing laparoscopic vs open right hemicolectomy (N = 139)

Variable	Laparoscopic (n = 48)	Open (n = 91)	p
Sex, n (%)			0.975
Male	29 (60%)	58 (64%)	
Female	19 (40%)	33 (36%)	
Age, years, median (IQR)	70.5 (10.8)	76 (10)	0.018
BMI, kg/m ² , mean (SD)	27.3 (4.3)	26.9 (4.1)	0.547
ASA score, n (%)			0.802
ASA II	21 (44%)	41 (45%)	
ASA III	27 (56%)	50 (55%)	
Charlson Comorbidity Index, median (IQR)	3 (1)	2 (1)	0.068
Preoperative CEA, median (IQR)	2.2 (54)	2.4 (8)	0.183
Preoperative CA 19-9, median (IQR)	11 (17)	6 (19)	0.120

Abbreviations: BMI = body mass index; ASA = American Society of Anesthesiologists; CEA = carcinoembryonic antigen; CA 19-9 = carbohydrate antigen 19-9; IQR = interquartile range; SD = standard deviation.

Supplementary Table 2. Perioperative, pathological, and 30-day outcomes

Variable	Laparoscopic (n = 48)	Open (n = 91)	p
Perioperative outcomes			
Operation time, min, median (IQR)	274 (115)	205 (55)	<0.001
Blood transfusion, n (%)	9 (19%)	28 (31%)	0.127
Synchronous metastasectomy, n (%)	1 (2%)	7 (8%)	0.169
Anastomotic leak, n (%)	2 (4%)	4 (4%)	0.950
Length of stay, days, median (IQR)	8 (2)	8 (5)	0.953
In-hospital mortality, n (%)	0	2 (2%)	0.545
30-day postoperative outcomes			
Overall complication (any), n (%)	5 (10%)	28 (31%)	0.007
Wound infection, n	2	14	
Bleeding, n	0	2	
Cardiac failure, n	0	1	
Pulmonary embolism, n	0	1	
Fever, n	0	2	
Ileus, n	1	4	
Major complication (Clavien-Dindo \geq IIIA), n (%)	3 (6%)	13 (14%)	0.158
Pathological outcomes			
pT stage, n (%)			0.001
T1	8 (17%)	4 (4%)	
T2	8 (17%)	7 (8%)	
T3	28 (58%)	50 (55%)	
T4	4 (8%)	30 (33%)	
pN stage, n (%)			0.856
N0	29 (60%)	51 (56%)	
N1	13 (27%)	26 (29%)	
N2	6 (13%)	14 (15%)	
pM stage, n (%)			0.164
M0	47 (98%)	82 (89%)	
M1	1 (2%)	9 (11%)	
Harvested lymph nodes, median (IQR)	17 (13)	24 (12)	0.009

Major complication was defined as Clavien-Dindo grade IIIA or higher. Abbreviations: IQR = Interquartile Range.

Supplementary Table 3. Univariate logistic regression analysis for postoperative > grade 3 complications

N: 139	Univariate		
	OR	95% CI	p
Gender	1.004	0.342-2.946	0.994
Age	1.047	0.957-1.145	0.213
Charlson comorbidity index	0.943	0.494-1.798	0.858
Operation type (Open vs. Lap.)	2.500	0.676-9.246	0.170
Operation time	0.999	0.992-1.005	0.664
Blood transfusion	3.241	1.118-9.400	0.030
Stage T (T1-T2 vs. T3-T4)	1.786	0.381-8.374	0.462
Stage N (N0 vs. N+)	1.417	0.497-4.008	0.517
Stage M	2.054	0.396-10.648	0.391
Total no of lymph node	0.980	0.932-1.030	0.420