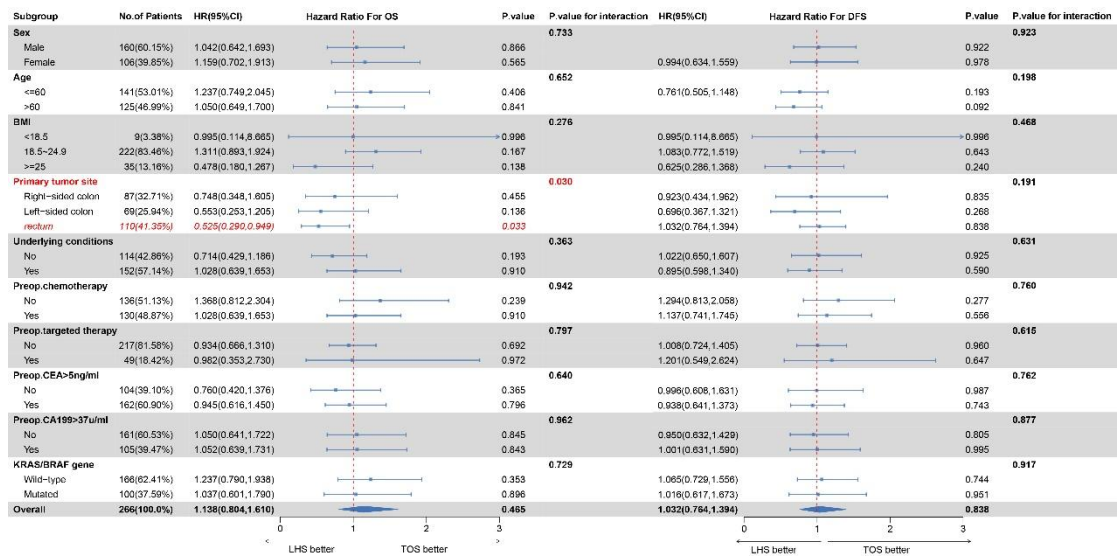
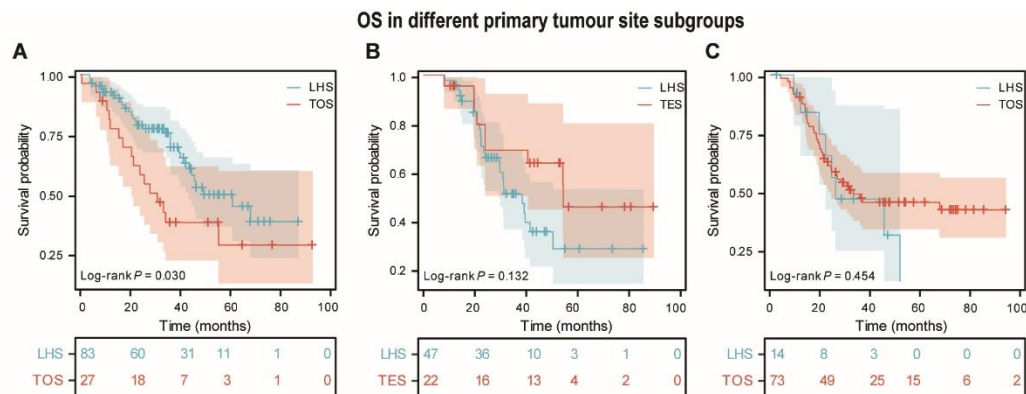
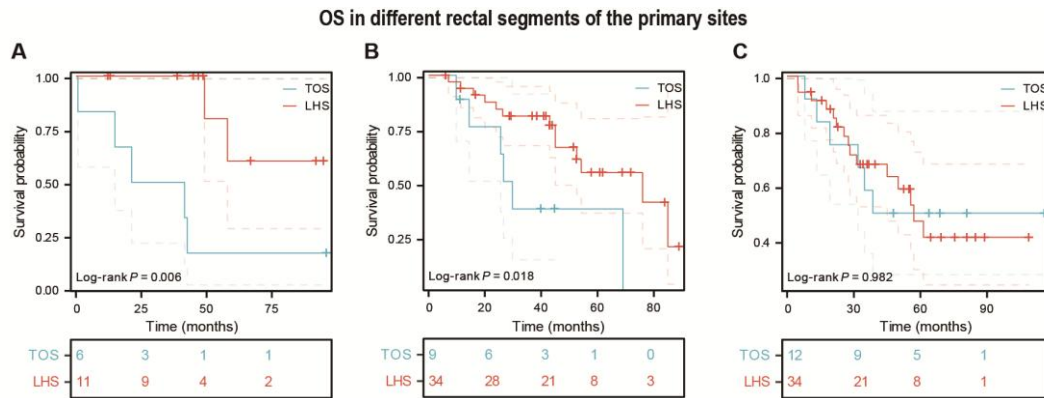




Supplementary Figure 1 Subgroup analysis of patients' preoperative factors.



Supplementary Figure 2 Kaplan-Meier estimates of OS stratified by primary tumor site. (A) OS curves for primary tumor as rectal cancer; (B) OS curves for primary tumor as right-sided colon cancer; (C) OS curves for primary tumor as left-sided colon cancer. OS, overall survival



Supplementary Figure 3 Kaplan-Meier estimates of OS stratified by rectal segments in patients with primary tumors located in the rectum. (A) OS curves for low-rectum cancer (tumor distance from anal verge less than 5cm); (B) OS curves for middle-rectum cancer (tumor distance from anal verge between 5cm and 10 cm); (C) OS curves for high-middle cancer (tumor distance from anal verge more than 10 cm). OS, overall survival.

Supplementary Table 1 Complication and short-term outcomes in patients with different primary tumor locations

Variable	TOS	LHS	p-value
Incidence of complication			
Right colon cancer, n (%)			0.846
Yes	14(19.2)	3(21.4)	
No	59(80.8)	11(78.6)	
Left colon cancer, n (%)			1.000
Yes	1(4.5)	2(4.3)	
No	21(95.5)	45(95.7)	
Rectal cancer, n (%)			0.003
Yes	10(37.0)	10(12.0)	
No	17(63.0)	73(88.0)	
Postoperative hospital stay, median (Q1, Q3), day			
Right colon cancer	9.00(7.00,12.00)	7.50(6.00,10.25)	0.065
Left colon cancer	10.00(8.00,11.00)	7.00(6.00,9.00)	0.004
Rectal cancer	12.00(8.00,13.00)	8.00(6.00,10.00)	<0.001
Time of liquid diet, median (Q1, Q3), day			
Right colon cancer	4.00(3.00,4.00)	3.00(3.00,3.00)	0.003
Left colon cancer	4.00(3.75,4.00)	3.00(3.00,3.00)	<0.001
Rectal cancer	4.00(4.00,4.00)	3.00(3.00,3.00)	<0.001

Supplementary Table 2 Complications in patients with the primary site in the rectum

Variable		TOS (n=27)	LHS (n=83)	p- value
Overall, n (%)		8(29.6)	12(14.5)	0.137
Gastrointestinal complications				
Bowel obstruction		1	1	-
Anastomotic leakage		7	10	-
Abdominal infections		1	1	-
Hepatic complications				
Bile leakage		0	0	-
Subphrenic effusion		2	2	-
Liver dysfunction		1	1	-
Respiratory complications				
Pleural effusion		4	3	-
Respiratory dysfunction		1	1	-
Cardiac complications		0	0	-
Urinary complications		0	1	-
General complications				
Hemorrhage		3	6	-
Surgical site infection		7	10	-
Clavien-Dindo Grade I~II, n(%)		5(18.5)	3(3.6)	0.030
Clavien-Dindo Grade 3~IV, n(%)		3(11.1)	9(10.8)	0.969

III~V, n(%)			
Reoperation, n (%)	0	0	-
Mortality, n (%)	1(3.7)	0	0.552

Supplementary Table 3 Short-term outcomes and complications.

Variable		TLS (n=15)	LHS (n=144)	p-value
Maximum	Liver			
metastases size, median	(Q1, Q3), cm	1.50 (1.00, 2.80)	2.98 (1.80, 3.00)	0.028
Liver metastases number, n (%)				0.892
<3		14(93.3)	133(92.4)	
>3		1(6.7)	11(7.6)	
Operative time, median (Q1,Q3), min		219.00 (170.00, 334.00)	260.00 (236.00, 320.00)	0.075
Postoperative hospital stay, median (Q1, Q3), day		6.00 (5.00, 12.00)	8.00 (6.00, 10.00)	0.164
Time of liquid diet, median (Q1, Q3), day		3.00 (3.00, 5.00)	3.00 (3.00, 3.00)	0.074
Total hospital cost, median (Q1, Q3), RMB		85083.59 (73659.02,97596.27)	66961.83 (60782.02,74916.50)	<0.001
Overall cases of complications, n (%)		7(46.7)	15(10.4)	<0.001
Clavien-Dindo Grade I~II, n(%)		3(20.0)	9(6.3)	0.160
Clavien-Dindo Grade III~IV, n (%)		4(26.7)	6(4.2)	0.004
Reoperation, n (%)		1(6.7)	1(0.7)	0.449
Mortality, n (%)		0	0	-

