

Figure S1 Forest plots of the number of dissected LNs showing significant differences between LG and OG. (A) Number of dissected LNs in proximal gastrectomy; (B) number of metastatic LNs dissected. LG, laparoscopic gastrectomy; OG, open gastrectomy; SD, standard deviation; IV, inverse variance; CI, confidence interval; LN, lymph node.

A	LG		OG			Odds Ratio			Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	Year		M-H, Fixed, 95% Cl	
Hong 2013	0	100	3	104	8.3%	0.14 [0.01, 2.83]	2013			
Huang 2017	4	171	7	171	16.6%	0.56 [0.16, 1.95]	2017			
Zhang 2018	1	36	2	41	4.4%	0.56 [0.05, 6.41]	2018			
Shi 2018	2	132	6	264	9.5%	0.66 [0.13, 3.32]	2018			
Lee 2019	0	37	2	71	4.1%	0.37 [0.02, 7.92]	2019			
Zhao 2019	10	468	8	217	25.9%	0.57 [0.22, 1.47]	2019			
Zhang 2021	3	52	4	61	8.4%	0.87 [0.19, 4.09]	2021			
Sugita 2021	1	50	2	29	6.0%	0.28 [0.02, 3.18]	2021			
Lin 2022	1	93	5	93	12.0%	0.19 [0.02, 1.67]	2022			
Song 2022	0	382	1	196	4.8%	0.17 [0.01, 4.20]	2022			
Total (95% CI)		1521		1247	100.0%	0.48 [0.28, 0.81]			•	
Total events	22		40							
Heterogeneity: Chi ² = 2	2.88. df = 9	9 (P = ().97); l ² =	0%				0.002	0.1 1 10	50

В

	LG		OG			Odds Ratio				Odds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI Y	ear		M	<u>-H. Fixed. 95</u>	% CI	
Hong 2013	2	100	5	104	14.5%	0.40 [0.08, 2.13] 20	013					
Huang 2017	1	171	2	171	6.0%	0.50 [0.04, 5.53] 20	017					
Jia 2018	1	48	4	68	9.8%	0.34 [0.04, 3.15] 20	018	-		•	-	
Zhang 2018	2	36	4	41	10.6%	0.54 [0.09, 3.16] 20	018				-	
Zhao 2019	17	468	11	217	43.7%	0.71 [0.32, 1.53] 20	019					
Lee 2019	0	37	1	71	3.1%	0.63 [0.02, 15.76] 20	019					
Zhang 2021	1	52	2	61	5.4%	0.58 [0.05, 6.57] 20	021					
Lin 2022	2	93	1	93	2.9%	2.02 [0.18, 22.69] 20	022		_			
Song 2022	1	382	1	196	4.0%	0.51 [0.03, 8.23] 20	022	_				
Total (95% CI)		1387		1022	100.0%	0.62 [0.36, 1.06]						
Total events	27		31									
Heterogeneity: Chi ² =	1.63, df =	8 (P = (0.99); l² =	0%			H	04			10	
Test for overall effect:	Z = 1.74 (P = 0.0	8)				U	.01	0.1	LG OG	10	100

С

	LG		OG			Odds Ratio		Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI Year		M-H, Random, 95% Cl	
Huang 2017	2	171	1	171	47.3%	2.01 [0.18, 22.40] 2017			
Zhang 2021	0	52	1	61	26.5%	0.38 [0.02, 9.63] 2021			
Sugita 2021	0	50	1	29	26.3%	0.19 [0.01, 4.77] 2021			
Total (95% CI)		273		261	100.0%	0.70 [0.13, 3.65]			
Total events	2		3						
Heterogeneity: Tau ² = Test for overall effect:				9 = 0.47	'); ² = 0%		0.002	0.1 1 10 LG OG	500

D

D	LG		OG			Odds Ratio				Odds Ratio		
Study or Subgroup	Events	Total			Weight	M-H, Fixed, 95% C	Year		М	-H. Fixed, 95%	CI	
Hong 2013	0	100	0	104		Not estimable	2013					
Huang 2017	1	171	0	171	4.4%	3.02 [0.12, 74.60]	2017					
Jia 2018	2	48	3	68	21.3%	0.94 [0.15, 5.86]	2018				_	
Wang 2019	2	32	4	43	28.6%	0.65 [0.11, 3.79]	2019					
Zhang 2021	0	52	1	61	12.2%	0.38 [0.02, 9.63]	2021			•		
Sugita 2021	2	50	2	29	21.7%	0.56 [0.07, 4.22]	2021			-		
Song 2022	2	382	1	196	11.8%	1.03 [0.09, 11.39]	2022					
Total (95% CI)		835		672	100.0%	0.81 [0.34, 1.94]				-		
Total events	9		11									
Heterogeneity: Chi ² =	1.10, df =	5 (P = 0).95); l² =	0%							10	100
Test for overall effect:	Z = 0.47 (P = 0.6	4)					0.01	0.1	LG OG	10	100

Figure S2 Forest plots of perioperative outcomes showing significant differences between LG and OG. (A) Postoperative pneumonia; (B) wound infection; (C) anastomotic site bleeding; (D) anastomotic stricture. LG, laparoscopic gastrectomy; OG, open gastrectomy; M-H, Mantel-Haenszel; CI, confidence interval.

A	LG		OG			Odds Ratio		Odds Ratio						
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	l Year		M-H, Fixed, 95% Cl					
Hong 2013	1	100	0	104	1.6%	3.15 [0.13, 78.26]	2013							
Huang 2017	2	171	3	171	9.7%	0.66 [0.11, 4.02]	2017							
Jia 2018	2	48	4	68	10.4%	0.70 [0.12, 3.96]	2018							
Zhang 2018	1	36	1	41	3.0%	1.14 [0.07, 18.96]	2018							
Zhao 2019	21	468	8	217	34.3%	1.23 [0.53, 2.82]	2019				<u> </u>			
Wang 2019	1	32	2	43	5.4%	0.66 [0.06, 7.63]	2019							
Lee 2019	1	37	2	71	4.4%	0.96 [0.08, 10.93]	2019							
Zhang 2021	1	52	1	61	3.0%	1.18 [0.07, 19.29]	2021							
Sugita 2021	3	50	1	29	3.9%	1.79 [0.18, 18.02]	2021		_					
Lin 2022	1	93	1	93	3.3%	1.00 [0.06, 16.23]	2022							
Song 2022	13	382	5	196	21.0%	1.35 [0.47, 3.83]	2022			-				
Total (95% CI)		1469		1094	100.0%	1.14 [0.70, 1.86]				•				
Total events	47		28											
Heterogeneity: Chi ² =	1.53, df =	10 (P =	1.00); l ²	= 0%				0.01	0.1			10	100	
Test for overall effect:	Z = 0.53 (P = 0.6	0)					0.01	0.1	LG	20	10	100	

	LG		OG			Odds Ratio		Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI Year	M-H	I. Fixed, 95% CI	
Shi 2018	4	132	8	264	67.6%	1.00 [0.30, 3.38] 2018	-	— — —	
Sugita 2021	4	50	1	29	15.2%	2.43 [0.26, 22.90] 2021	-		
Song 2022	2	382	1	196	17.2%	1.03 [0.09, 11.39] 2022			
Total (95% CI)		564		489	100.0%	1.22 [0.47, 3.16]		-	
Total events	10		10						
Heterogeneity: Chi ² =	0.49, df = 2	2 (P = ().78); l² =	0%			0.01 0.1		100
Test for overall effect:	Z = 0.41 (F	> = 0.6	8)				0.01 0.1	1 10 LG OG	10

	LG		OG			Odds Ratio				Odds Ratio		
Study or Subgroup	Events	Total	Events Total Weigh		Weight	leight M-H. Fixed, 95% CI Year			M-H, Fixed, 95% Cl			
Huang 2017	0	171	1	171	8.0%	0.33 [0.01, 8.19]	2017					
Jia 2018	0	48	1	68	6.6%	0.46 [0.02, 11.63]	2018					
Zhao 2019	14	468	8	217	57.0%	0.81 [0.33, 1.95]	2019					
Sugita 2021	4	50	2	29	12.5%	1.17 [0.20, 6.84]	2021		-			
Zhang 2021	1	52	0	61	2.4%	3.58 [0.14, 89.84]	2021					
Lin 2022	0	93	2	93	13.4%	0.20 [0.01, 4.13]	2022	•			-	
Total (95% CI)		882		639	100.0%	0.78 [0.39, 1.53]				-		
Total events	19		14									
Heterogeneity: Chi ² =			H	-+		-+						
Test for overall effect:	Z = 0.73 (P = 0.4	6)					0.01	0.1	LG OG	10	100

D											
	LG		OG			Odds Ratio		Odds Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI Year		M	-H, Fixed, 959	% CI	
Huang 2017	2	171	2	171	13.2%	1.00 [0.14, 7.18] 2017		_			
Zhao 2019	11	468	6	217	53.6%	0.85 [0.31, 2.32] 2019)				
Sugita 2021	1	50	4	29	33.2%	0.13 [0.01, 1.20] 2021		-			
Total (95% Cl)		689		417	100.0%	0.63 [0.29, 1.38]					
Total events	14		12								
Heterogeneity: Chi ² = 2	2.49, df = 2	(P=0).29); l² =	20%						10	100
Test for overall effect:	Z = 1.16 (P	9 = 0.2	5)				0.01	0.1	LG OG	10	100

E											
	LG		OG			Odds Ratio			Odds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI Yea	r	M-	H. Fixed. 95%	6 CI	
Hong 2013	0	100	1	104	25.2%	0.34 [0.01, 8.53] 201	3 —		-		
Huang 2017	0	171	1	171	25.7%	0.33 [0.01, 8.19] 201	7 —		•		
Zhao 2019	2	468	1	217	23.4%	0.93 [0.08, 10.28] 201	9				
Lin 2022	0	93	1	93	25.7%	0.33 [0.01, 8.20] 202	2 —		•		
Total (95% CI)		832		585	100.0%	0.47 [0.12, 1.92]					
Total events	2		4								
Heterogeneity: Chi ² = Test for overall effect:		•		0%			0.01	0.1	1 LG OG	10	100

Figure S3 Forest plots of perioperative outcomes showing significant differences between LG and OG. (A) Anastomotic leakage; (B) abdominal abscess; (C) intestinal obstruction; (D) pancreatic fistula; (E) mortality at 30 days. LG, laparoscopic gastrectomy; OG, open gastrectomy; M-H, Mantel-Haenszel; CI, confidence interval.

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