Laparoskopi

RCT

LOGICA

2015-2018
Open vs. Lap
Hospital stay

Median hospital stay: 7 days (IQR 5-9, *P* = .34). No difference

Median blood loss was less in the laparoscopic group (150 *v* 300 mL, *P* < .001),

Mean operating time was longer in the laparoscopic group (216 *v* 182 minutes, *P* < .001).

Postoperative complications (44% *v* 42%, *P* = .91), No difference

I**n-hospital mortality** (4% *v* 7%, *P* = .40), No difference

30-day readmission rate (9.6% *v* 9.1%, *P* = 1.00), No difference

R0 resection rate (95% *v* 95%, *P* = 1.00), No difference

Median lymph node yield (29 *v* 29 nodes, *P* = .49), No difference

1-year overall survival (76% *v* 78%, *P* = .74), No difference

Global health-related **quality of life** up to 1 year postoperatively. No difference

Laparoscopic gastrectomy **did not lead to a shorter hospital stay** in this Western multicenter randomized trial of patients with predominantly advanced gastric cancer. Postoperative complications and oncological efficacy did not differ between laparoscopic gastrectomy and open gastrectomy.

Van der Veen et al. J Clin Oncol 2021

Robotik

No RCT

Study or Subgroup	RG Events	Total	LG Events	Total	Weight	Odds Ratio M-H, Random, 95% CI
Alhossaini 2019	10	25	11	30	1.3%	1.15 [0.39, 3.43]
Cianchi 2016	6	30	8	41	1.2%	1.03 [0.32, 3.36]
Eom 2012	4	30	4	62	0.8%	2.23 [0.52, 9.62]
Gao 2018	22	163	46	339	4.1%	0.99 [0.58, 1.72]
Han 2015	13	68	15	68	2.1%	0.84 [0.36, 1.92]
Ho-Jung 2020	97	421	374	1663	8.7%	1.03 [0.80, 1.33]
Hong 2016	30	232	32	232	4.2%	0.93 [0.54, 1.59]
Huang 2014	9	72	6	73	1.3%	1.60 [0.54, 4.74]
Hyun 2013	18	38	32	83	2.4%	1.43 [0.66, 3.11]
Junfeng 2014	7	120	17	394	1.9%	1.37 [0.56, 3.40]
Kang 2012	14	100	29	282	2.9%	1.42 [0.72, 2.81]
Kim HI 2013	9	172	20	481	2.2%	1.27 [0.57, 2.85]
Kim HI 2016	22	185	19	185	3.2%	1.18 [0.62, 2.26]
Kim KM 2012	44	436	81	861	6.1%	1.08 [0.73, 1.59]
Kim MC 2010	0	16	1	11	0.2%	0.21 [0.01, 5.71]
Kim YW 2015	5	87	26	288	1.6%	0.61 [0.23, 1.65]
Kong 2019	37	294	105	750	5.9%	0.88 [0.59, 1.32]
Lee 2015	14	133	34	267	3.1%	0.81 [0.42, 1.56]
Li Z 2018	15	112	13	112	2.3%	1.18 [0.53, 2.60]
Liu 2018	5	100	9	135	1.3%	0.74 [0.24, 2.27]
Lu 2018	14	101	38	303	3.1%	1.12 [0.58, 2.17]
Nakauchi 2016	2	84	56	437	0.8%	0.17 [0.04, 0.69]
Noshiro 2014	2	21	16	160	0.7%	0.95 [0.20, 4.45]
Obama 2016	38	315	62	525	5.5%	1.02 [0.67, 1.58]
Okumura 2015	45	370	24	132	4.1%	0.62 [0.36, 1.07]
Parisi 2017	30	151	19	151	3.3%	1.72 [0.92, 3.22]
Park 2015	12	145	46	612	3.1%	1.11 [0.57, 2.15]
Pugliese 2010	1	16	6	48	0.4%	0.47 [0.05, 4.20]
Seo 2014	11	40	12	40	1.6%	0.89 [0.34, 2.33]
Shen 2016	9	93	33	330	2.4%	0.96 [0.44, 2.09]
Son SY 2012	2	21	2	42	0.4%	2.11 [0.28, 16.10]
Son T 2014	8	51	13	58	1.6%	0.64 [0.24, 1.71]
Song 2009	1	20	2	20	0.3%	0.47 [0.04, 5.69]
Suda 2015	2	88	54	438	0.8%	0.17 [0.04, 0.69]
Uyama 2012	2	25	38	225	0.8%	0.43 [0.10, 1.89]
Wang WJ 2018	42	223	78	223	5.4%	0.43 [0.28, 0.67]
Woo 2011	26	236	81	591	4.9%	0.78 [0.49, 1.25]
Yang 2016	9	173	63	511	2.7%	0.39 [0.19, 0.80]
Yoon 2012	6	36	10	65	1.3%	1.10 [0.36, 3.32]
Total (95% CI)		**5043**		**11268**	**100.0%**	**0.91 [0.79, 1.04]**
Total events	643		1535			

Heterogeneity: $Tau^2 = 0.04$; $Chi^2 = 49.70$, df = 38 (P = 0.10); $I^2 = 24\%$
Test for overall effect: Z = 1.42 (P = 0.16)

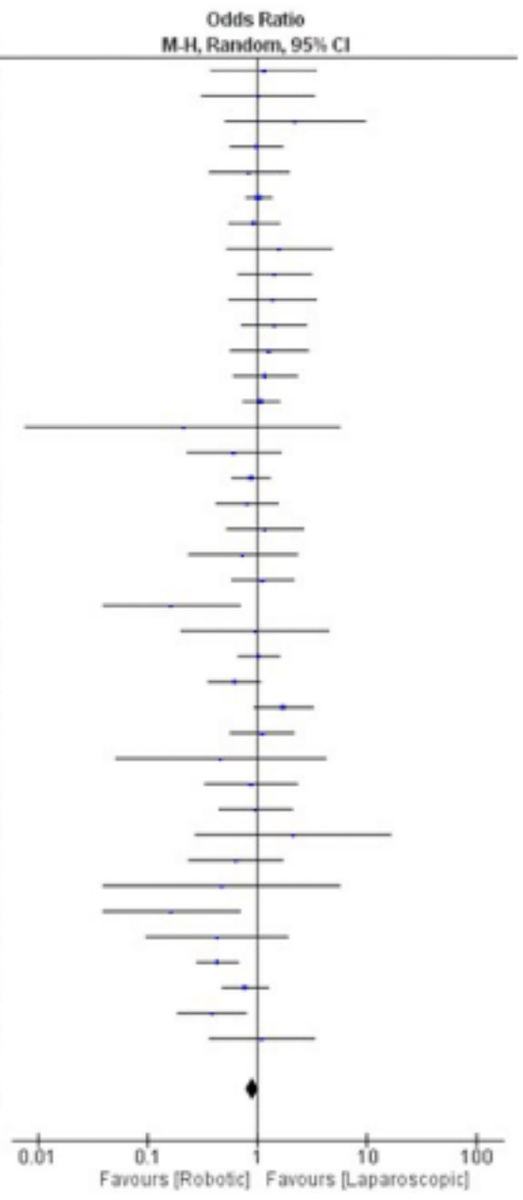

Fig. n.10. Overall complication.

higher **operating time** [MD 44.73, (95%CI 36.01, 53.45) p <0.00001]
less **intraoperative blood loss** [MD -18.24, (95%CI -25.21, 11.26) p <0.00001]
lower rate of **major surgical complication** [OR 0.66, (95%CI 0.49, 0.88) p =0.005]
increased number of **retrieved lymph nodes** [MD 1.84, (95%CI 0.84, 2.84) p =0.0003]

Guerrini GP et al. IJS 2020