Table S1, SDC. Country of origin of 190 included studies, percentages between brackets.

Country	Number of articles			
	included			
Argentina	1	(0.5)		
Australia	6	(3.2)		
Belgium	1	(0.5)		
Brazil	4	(2.1)		
Canada	5	(2.6)		
Chile	1	(0.5)		
China	2	(1.1)		
Czech Republic	1	(0.5)		
France	2	(1.1)		
Germany	8	(4.2)		
Greece	1	(0.5)		
India	10	(5.3)		
Iran	1	(0.5)		
Italy	5	(2.6)		
Japan	7	(3.7)		
Korea	11	(5.8)		
Kuwait	1	(0.5)		
Lebanon	1	(0.5)		
Mexico	1	(0.5)		
Netherlands	13	(6.8)		
Norway	2	(1.1)		
New Zealand	1	(0.5)		
Pakistan	1	(0.5)		
South Africa	1	(0.5)		
Spain	3	(1.6)		
Sweden	2	(1.4)		
Switzerland	3	(1.6)		
Taiwan	2	(1.1)		
Thailand	1	(0.5)		
Turkey	3	(1.6)		
United Kingdom	12	(6.3)		
USA	76	(40)		
Vietnam	1	(0.5)		

Figure S1 – GRADE table of quality of evidence for studies included in meta-analysis

Figure S2 - Forest plot analysis for postoperative ileus after laparoscopic donor nephrectomy with or without hand-assistance.

№ of studies	of studies Study design		Risk of Inconsistency		Indirectness Imprecision		Quality	
19	3 RCTs 5 Pros cohorts 11 Retro cohorts	not serious	not serious	serious 1	not serious	none	⊕OOO VERY LOW ¹	
	neoscopic versus L	aparoscopic	Live Donor Neph	rectomy				
Quality assess	ment						Quality	
№ of studies	tudies Study design		Risk of Inconsistency		Imprecision	Other considerations		
7	2 RCTs 2 Pros cohorts 2 Retro cohorts	not serious	not serious	serious ²	not serious	none	⊕OOO VERY LOW ²	
3. Single-Port	(LESS) versus Mul	tiport Laparos	copic Live Dono	Nephrectomy	Å0 3			
Quality assess	ment	100	27.				Quality	
№ of studies	dies Study design Risk o		Inconsistency	Indirectness	Imprecision	Other considerations		
10	3 RCTs 1 Pros cohort 6 Retro cohorts	not serious	not serious	serious 3	not serious	none	⊕OOO VERY LOW ³	
4. Mini-open v	ersus Laparoscopi	c Live Donor I	Nephrectomy	•				
Quality assess	ment			5V			Quality	
№ of studies	Risk of		Inconsistency Indirectness		Imprecision	Other considerations		
8	3 RCTs 5 Pros cohorts	not serious	not serious	Serious 4	not serious	none	⊕○○○ VERY LOW ⁴	
Hand-assi the retrope Retroperit performed In one study Specified.	controlled Trial, Pros - Pro isted techniques are compa eritoneos copic procedure. oneoscopic procedures are f. dy hand-assisted laparos co The other seven studies co compared hand-assisted la donor nephrectomy. One a	red to pure technique compared to laparos pic donor nephrector mpared pure laparos sparoscopic donor ne	es in all articles, however scopic procedures. In son my was compared to LES scopic donor nephrectomy ephrectomy to mini-open	ne articles this regards S donor nephrectomy y to LESS donor neph donor nephrectomy, w	s the pure technique, , in one study the def rectomy. /here the others com	while in others hand-assi fined technique for multip	sted procedures are ort procedure was not	

1. Hand-Assisted versus Pure Laparoscopic Live Donor Nephrectomy

Quality assessment

	Scop	ic	Miniop	en		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	Year	M-H, Fixed, 95% CI
Kroencke 2015	0	45	0	38		Not estimable	2015	
Hofker 2012	2	25	0	25	34.1%	5.00 [0.25, 99.16]	2012	-
Nicholson 2010	0	56	0	28		Not estimable	2010	
Kok 2006	3	50	0	50	34.1%	7.00 [0.37, 132.10]	2006	-
Lewis 2004	0	22	0	29		Not estimable	2004	
Castillon 2000	1	13	0	15	31.8%	3.43 [0.15, 77.58]	2000	
Total (95% CI)		211		185	100.0%	5.18 [0.91, 29.35]		
Total events	6		0					
Heterogeneity: Chi ² = 0.11, df = 2 (P = 0.95); I^2 = 0%							0.01 0.1 1 10 100	
Test for overall effect:	Z=1.86	(P = 0.0)	16)				,	Favours [Scopic] Favours [Miniopen]