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('kidney transplantation'/exp OR 'renal graft dysfunction'/exp OR (((kidney* OR renal) NEAR/3 (transplant* OR graft* OR homograft* OR autograft* OR allograft* OR transplant* OR homotransplant* OR autotransplant* OR allotransplant*)):ab,ti) AND ('aortic disease'/de OR 'aortic atherosclerosis'/de OR 'aortic constriction'/exp OR 'aortic dissection'/de OR 'aortic occlusion'/de OR 'aortic stenosis'/exp OR 'aortic surgery'/exp OR 'Leriche syndrome'/de OR 'iliac artery obstruction'/de OR (('blood vessel calcification'/de OR 'artery calcification'/de OR calcification/de OR stenosis/de OR 'artery reconstruction'/de OR 'vascular surgery'/de OR atherosclerosis/de OR arteriosclerosis/de OR 'artery occlusion'/de) AND ('iliac artery'/de OR 'aorta'/de OR 'abdominal aorta'/de)) OR (((aort* OR iliac) NEAR/6 (disease* OR atherosclero* OR sclero* OR stenosis OR calcific* OR constrict* OR dissect* OR occlusi* OR reconstruct* OR bypass OR dilatat* OR balloon OR angioplast* OR repair* OR abnormal* OR anomal* OR syndrome* OR surger* OR stent*)) OR Leriche):ab,ti) NOT ([Conference Abstract]/lim OR [Letter]/lim OR [Note]/lim OR [Editorial]/lim) AND [english]/lim
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(Kidney Transplantation/ OR kidney/tr OR (((kidney* OR renal) ADJ3 (transplant* OR graft* OR homograft* OR autograft* OR allograft* OR transplant* OR homotransplant* OR autotransplant* OR allotransplant*)):ab,ti.) AND (Aortic Diseases/ OR aorta/su OR Leriche syndrome/ OR ((Vascular Calcification/ OR Constriction, Pathologic/ OR Vascular Surgical Procedures/ OR atherosclerosis/ OR arteriosclerosis/) AND (Iliac Artery/ OR aorta/ OR Aorta, Abdominal/)) OR (((aort* OR iliac) ADJ6 (disease* OR atherosclero* OR sclero* OR stenosis OR calcific* OR constrict* OR dissect* OR occlusi* OR reconstruct* OR bypass OR dilatat* OR balloon OR angioplast* OR repair* OR abnormal* OR anomal* OR syndrome* OR surger* OR stent*)) OR Leriche).ab,ti.) NOT (letter OR news OR comment OR editorial OR congresses OR abstracts).pt. AND english.la.
Cochrane CENTRAL
(((kidney* OR renal) NEAR/3 (transplant* OR graft* OR homograft* OR autograft* OR allograft* OR transplant* OR homotransplant* OR autotransplant* OR allotransplant*)):ab,ti) AND (((aort* OR iliac) NEAR/6 (disease* OR atherosclero* OR sclero* OR stenosis OR calcific* OR constrict* OR dissect* OR occlusi* OR reconstruct* OR bypass OR dilatat* OR balloon OR angioplast* OR repair* OR abnormal* OR anomal* OR syndrome* OR surger* OR stent*)) OR Leriche):ab,ti)
Web of science
TS=(((kidney* OR renal) NEAR/2 (transplant* OR graft* OR homograft* OR autograft* OR allograft* OR transplant* OR homotransplant* OR autotransplant* OR allotransplant*))) AND (((aort* OR iliac) NEAR/5 (disease* OR atherosclero* OR sclero* OR stenosis OR calcific* OR constrict* OR dissect* OR occlusi* OR reconstruct* OR bypass OR dilatat* OR balloon OR angioplast* OR repair* OR abnormal* OR anomal* OR syndrome* OR surger* OR stent*)) OR Leriche))) AND DT=(article) AND LA=(english)
Google scholar
"kidney renal transplant graft autograft allograft transplant autotransplant allotransplant" "aorta aortic aortoiliac iliac disease atherosclerosis sclerosis stenosis calcification constriction occlusion reconstruction bypass surgery stent" Leriche

Table S1: Search terms used for this systematic review and meta-analysis

Studies	Quality assessment						Sample size		Absolute effect (95% CI)		Quality	Importance	RR (95 %CI)
	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	VC	nVC	VC	nVC			
7	1-year mortality												
1,22,23,24,25,26,27	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 0%	Not serious	Not serious	Not serious No asymmetry in funnel plot	763	2618	46 per 1000	26 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 2.19 (1.39-3.44)
6	3-year mortality												
1,23,24,25,26,27	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 0%	Not serious	Not serious	Not serious No asymmetry in funnel plot	728	2544	121 per 1000	64 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 2.17 (1.66-2.83)
5	5-year mortality												
1,23,24,25,27	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 0%	Not serious	Not serious	Not serious No asymmetry in funnel plot	678	2475	217 per 1000	104 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 2.28 (1.86-2.79)
3	1-year graft loss (uncensored for death)												
22,23,26	Observational cohort studies	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 0%	Not serious	Not serious	Not serious No asymmetry in funnel plot	117	204	120 per 1000	34 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 3.15 (1.30-7.64)
2	3-year graft loss (uncensored for death)												
23,26	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Serious I2 = 57%	Not serious	Not serious	Not serious No asymmetry in funnel plot	82	130	244 per 1000	77 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 3.41 (0.97-11.96)
2	1-year graft loss (censored for death)												
25,26	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 28%	Not serious	Not serious	Not serious No asymmetry in funnel plot	119	1070	92 per 1000	65 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 2.26 (0.58-8.82)
2	3-year graft loss (censored for death)												
25,26	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Serious I2 = 57%	Not serious	Not serious	Not serious No asymmetry in funnel plot	119	1070	210 per 1000	203 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 2.19 (0.49-9.82)
4	Delayed graft function												
22,25,26,30	Observational cohort	Serious Different exposure measurement Outcome is unadjusted	Not serious I2 = 0%	Not serious	Not serious	Not serious No asymmetry in funnel plot	184	1207	310 per 1000	341 per 1000	⊕○○○ VERY LOW	CRITICAL	RR 1.24 (0.98-1.58)

GRADE Working Group grades of evidence

High quality: Further research is very unlikely to change our confidence in the estimate of effect.

Moderate quality: Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.

Low quality: Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.

Very low quality: We are very uncertain about the estimate.

Table S2: Summary of findings table for studies included in meta-analysis

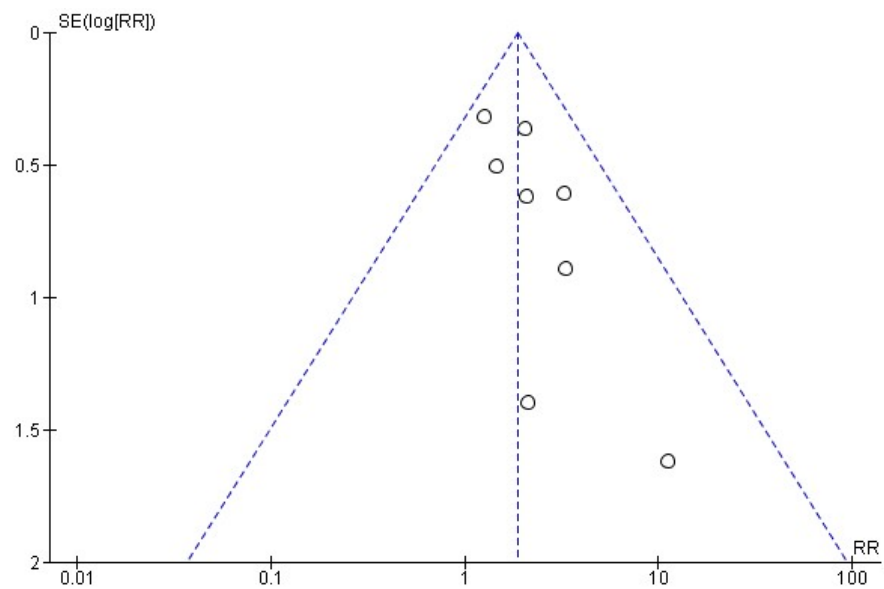


Figure S1: funnel plot for outcome: 1-year mortality

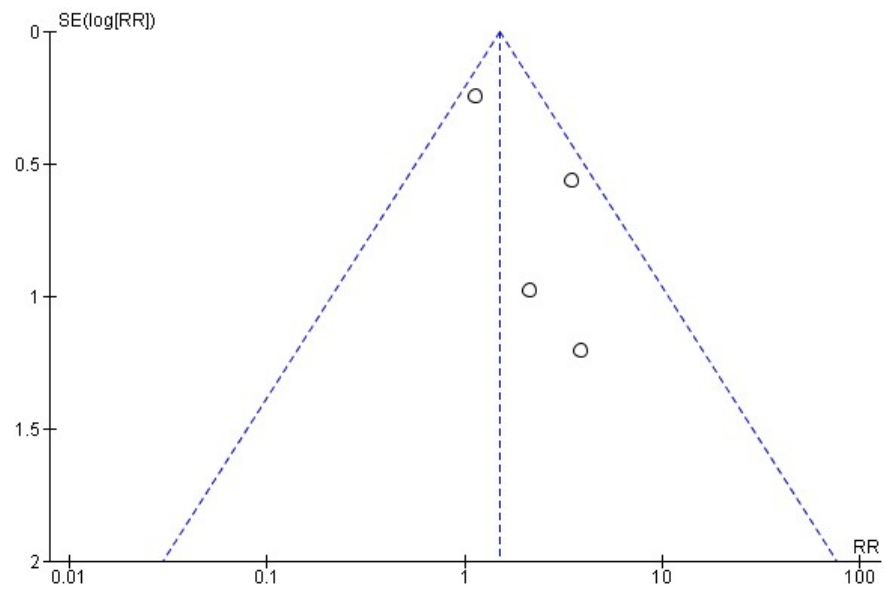


Figure S2: funnel plot for outcome: 1-year uncensored graft loss

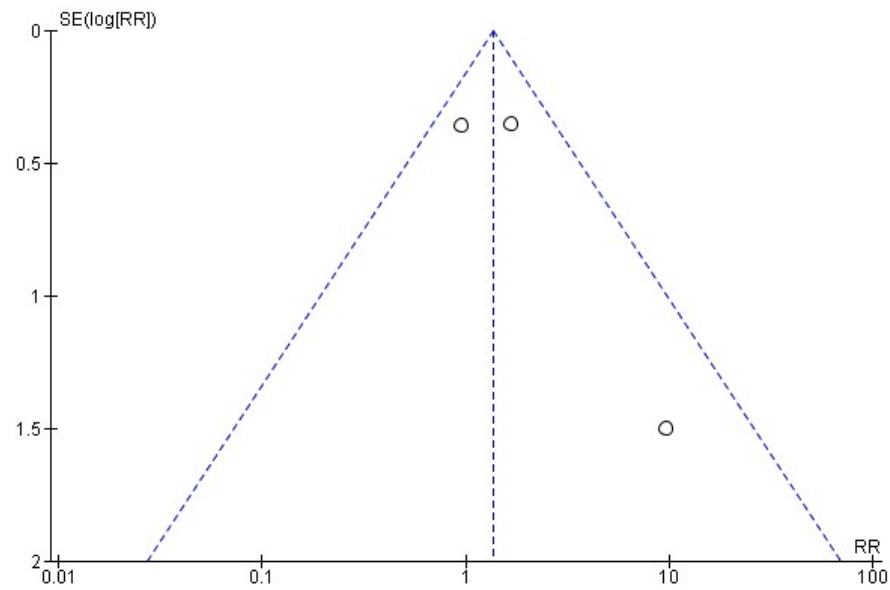


Figure S3: funnel plot for outcome: 1-year death-censored graft loss

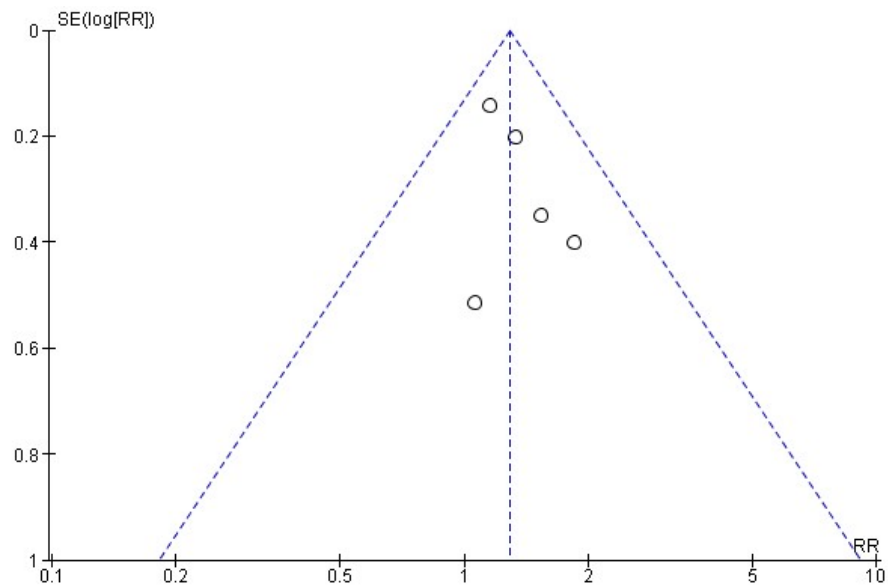


Figure S4: funnel plot for outcome: delayed graft function