

SDC, Materials and Methods 1 – Sample search strategy for OVID MEDLINE

1. ORGAN TRANSPLANTATION/
2. TRANSPLANTATION/
3. HEART TRANSPLANTATION/
4. LIVER TRANSPLANTATION/
5. KIDNEY TRANSPLANTATION/
6. LUNG TRANSPLANTATION/
7. PANCREAS TRANSPLANTATION/
8. HEART-LUNG TRANSPLANTATION/
9. ((heart\$1 or lung\$1 or heart-lung\$1 or kidney\$1 or renal\$1 or organ\$1 or pancrea\$ or multiorgan\$1 or viscera\$ or multiviscera\$ or liver\$1 or hepatic\$1 or intestine\$1 or bowel\$1) adj5 transplant\$).ti,ab.
10. ((heart\$1 or lung\$1 or heart-lung\$1 or kidney\$1 or renal\$1 or organ\$1 or pancrea\$ or multiorgan\$1 or viscera\$ or multiviscera\$ or liver\$1 or hepatic\$1 or intestine\$1 or bowel\$1) adj5 graft\$).ti,ab.
11. ((heart\$1 or lung\$1 or heart-lung\$1 or kidney\$1 or renal\$1 or organ\$1 or pancrea\$ or multiorgan\$1 or viscera\$ or multiviscera\$ or liver\$1 or hepatic\$1 or intestine\$1 or bowel\$1) adj5 allograft\$).ti,ab.
12. or/1-11
13. exp "TISSUE AND ORGAN PROCUREMENT"/
14. exp TISSUE DONORS/
15. exp DONOR SELECTION/
16. "TISSUE AND ORGAN HARVESTING"/
17. ((heart\$1 or lung\$1 or heart-lung\$1 or kidney\$1 or renal\$1 or organ\$1 or pancrea\$ or multiorgan\$1 or viscera\$ or multiviscera\$ or liver\$1 or hepatic\$1 or intestine\$1 or bowel\$1 or organ\$1 or DBD or DCD or "brain stem dead" or BSD or deceased or live or living) adj5 (donor or donation)).ti,ab.
18. or/13-17
19. 12 or 18
20. (("cell-free" or "cell free" or "cf" or circulating or serum or plasma or mitochondrial) adj5 (DNA or "Deoxyribonucleic acid" or "nucleic acid\$")).ti,ab.
21. ("cf-dna" or "cf dna" or "cfNDA" or "mtDNA" or "mt DNA" or "mt-DNA").ti,ab.
22. DNA/blood*
23. or/20-22
24. 19 and 23

SDC, Materials and Methods 2 – Risk of bias assessment for studies reporting diagnostic test accuracy (DTA) data, using the QUADAS-2 tool (14).

¹ Reported in abstract form only

Study	RISK OF BIAS				APPLICABILITY CONCERNS		
	PATIENT SELECTION	INDEX TEST	REFERENCE STANDARD	FLOW AND TIMING	PATIENT SELECTION	INDEX TEST	REFERENCE STANDARD
Bloom 2017	Low	High	Low	High	Low	Low	Low
Moriera 2009	Low	High	High	High	High	Low	Low
Sigdel 2013	High	High	Low	Low	Low	Low	Low
Sigdel 2015 ¹	Unclear	High	Low	Unclear	Unclear	Low	Low
Zhang 2011 ¹	Unclear	High	Unclear	Unclear	Unclear	Low	Unclear
Schultz 2017	Low	High	Low	High	Low	Low	Low
De Vlaminc 2014	Low	High	Low	Low	Low	Low	Low
Snyder 2011	High	High	Low	High	Low	Low	Low
Hidestrand 2014	High	Unclear	Low	Low	Low	Low	Low
Grskovic 2016	High	High	Low	High	Low	Low	Low
De Vlaminc 2015	Low	High	Low	Unclear	Low	Low	Low
Sharon 2017	Low	High	Low	Unclear	Low	Low	Low
Agbor-Enoh 2018	Low	High	Low	Unclear	Low	Low	Low