Supplementary material

Appendix 1: Search Strategy MEDLINE

1. brain death/
2. (brain adj1 (death or dead)).mp.
3. irreversible coma*.mp.
4. coma depasse.mp.
5. (neurologic*adj1(death or dead)).mp.
6. deceased.mp.
7. deceased donor*.mp.
8. dead donor*.mp.
9. or/1-8
10. ((cardiac or heart) adj3 (donor* or donat*)).mp.
11. donation after card*death.mp.
12. or/10-11
13. donor management.mp.
14. “tissue and organ harvesting”/or donor selection/
15. organ harvesting.mp.
16. donor pretreatment.mp.
17. organ don*.mp.
18. exp organ donor/
19. organ recov*.mp.
20. organ procure*.mp.
21. (kidney adj1 (donor* or donat* or transplant*)).mp.
22. (liver adj1 (donor* or donat* or transplant*)).mp.
23. (lung adj1 (donor* or donat* or transplant*)).mp.
24. (heart adj1 (donor* or donat* or transplant*)).mp.
25. (pancreas adj1 (donor* or donat* or transplant*)).mp.
26. (small bowel adj1 (donor* or donat* or transplant*)).mp.
27. or/13-26
28. 9 or 12
29. 27 and 28

30. humans/
31. animals/
32. 30 nor (30 and 31)
33. 29 and 32
34. rct.mp.
35. randormi?ed control*trial*.mp.
36. random*allocation*.mp.
37. random*experimental trial*.mp.
38. control*clinical trial*.mp.
39. clinical trial/
40. clinical trial*.mp.
41. experimental trial*.mp.
42. single-blind method/
43. double-blind procedure/
44. double-blind method.mp.
45. triple-blind method/
46. triple-blind method.mp.
47. prospective study/
48. (prospective cohort adj2stud*).mp.
49. (prospective observ* adj2 stud*).mp.
50. or/34-39
51. 33 and 50
52. the haemodynamic effects of adjunctive hormone therapy in potential heart.m_titl.
53. 51 or 52
54. steroid pretreatment of organ donors to prevent postischemic.m_titl.
55. 51 or 54

Characteristics of Studies with Waived Research Consent

Study (year) [country]	No. sites (N)	Children included?	Intervention	Outcomes*	Donor consent model	Recipient consent model	Justification for waiver of consent for donors
Chen (2016) [USA]	Multicentre (85)	Yes	Data collection	Physiological	Waived	Not applicable	« This study was reviewed by our institution's Institution Review Board where it was determined that formal approval was not required as the research did not involve living subjects »
Mancia (2015) [France]	Single (23)	No	Fibroscan	Laboratory	Waived	Not applicable	Not reported
Bloom (2015) [USA]	Multicentre (961)	No	Data collection	Liver recovery	Waived	Waived	« The study was determined to represent nonhuman subject research by our IRB and was approved by the research oversight bodies of each OPO in Region 5. »
De la Cruz (2015) [USA]	Multicentre (1066)	No	Data collection	No outcome	Waived	Waived	« The study was determined to represent nonhuman subject research by our institutional review board and was approved by the research oversight bodies of each OPO in Region 5. »
Muller (2015) [France]	Multicentre (146)	No	NGAL serum measurement	Laboratory	Waived	Not reported	« Considering that the current study was noninterventional and that such investigation did not need significant additional blood sample (volume <0.5 ml), the institutional review board approved this

							study (Institutional Review Board, Nîmes University Hospital, France, file number 2011.01.01) and stated that informed consent of next-of-kin was not required as organ donors are not considered human subjects. However, the next-of-kin was systematically orally informed and could refuse the participation. According to the French law, the National Committee on Health Research Data Analysis (CCTIRS, Comité Consultatif sur le Traitement de l'Information en matière de Recherche dans le domaine de la Santé , Nîmes France, file number: 11.140) and the National » « Committee on Information Technology (Commission Nationale de l'Informatique et des Libertés , Paris, France, file number EGY/FLR/AR114292) also approved this study. This prospective, multicenter, observational study was conducted by a French anesthesia and intensive care research network (AzuRea group). »
Zarrinpar (2015) [USA]	Multicentre (53)	No	Non-invasive measurement of ICG clearance	Laboratory	Waived	Not reported	Not reported
Pinsard (2014) [France]	Multicentre (259)	No	Steroid	Physiological	Waived	Waived	« The study was approved by the French human subject protection committee, which waived the need for written informed consent from the family. In fact, French law entitles the conduct of randomized

							studies among clinically deceased patients without any informed consent from the family of the patient concerned. The families of the donors were informed of the study. The French Registre National des Refus was consulted systematically (mandatory in France) to eliminate any opposition of the donor to participation in a clinical trial or organ donation. »
Sally (2014) [USA]	Multicentre (1611)	No	Data collection	Organs recovered	Waived	Waived	Not reported
Malinoski (2013) [USA]	Multicentre (492)	No	Data collection	Organs recovered	Waived	Waived	Non human subject “this study was approved internally by the research oversight bodies of each OPO and was determined to represent non-human subjects research by the Cedars-Sinai Medical Center IRB”
Hollmen (2011) [Finland]	Single (99)	No	Data collection	Laboratory	Waived	Informed	Not reported
Christmas (2010) [USA]	Multicentre (100)	No	Data collection	Organs recovered	Waived	Not applicable	Not reported
Eyraud (2008) [France]	Single (67)	No	Blood sample	No donor outcome	Waived	Waived	“The ethical committee waived the need for informed consent because alicots were taken from routine samples”
Nicolas-Robin (2007) [France]	Single (63)	No	Blood sample (BNP,Troponin)	Physiological	Waived	Not applicable	“The need for informed consent was waived since biological analysis was performed on blood withdrawn during routine biologicaltesting for cTnI and

							transesophageal echocardiopgrahy is routinely performed in our unit for the assessment of brain death patients. This study was accomplished in accordance with the French laws concerning multiple organs procurement.”
Fischer (2003) [UK]	Multicentre (26)	No	Bronchoscopy+ Lung biopsy	Laboratory	Waived	Not reported	Not reported
Riou (1995) [France]	Single (80)	Yes	Blood sample (troponin)	Physiological	Waived	Not applicable	Not reported
Riou (1994) [France]	Single (72)	No	Bronchoscopy	Process of care	Waived	Not applicable	Not reported
Randomized controlled trials							
Niemann (2015) [USA]	Multicentre (394)	No	Temp 34-35 Vs Temp 36.5-37.5	No donors outcome	Waived	Waived	« The study was evaluated by the institutional review board at the University of California, San Francisco, and was deemed to represent nonhuman subjects research under U.S. federal law, since the patients were deceased. Furthermore,the institutional review board concluded that this study posed minimal risks to the organ recipients and that informed consent would not be required for a recipient to accept an organ from a donor enrolled in the study »
Amatschek (2012) [Austria]	Multicentre (90)	No	Steroids vs no steroids	No donor outcome	Waived	Waived	Not reported
Minou (2012)	Single (60)	No	Sevoflurance vs	No donor outcome	Waived	Informed	NoT reported

[Belarus]			Placebo				
Koneru (2005) [USA]	Single (62)	No	Ischemic preconditioning Vs Standard	Physiological	Waived	Informed	The human research committee of our institution and the organ recovery network's physician committee approved the conduct of the study with a requirement to review the data on a periodic basis for any trends of potential harm to the recipients. Informed consent was obtained from the prospective liver recipients. An exemption from consent by the donor's next of kin, apart from that for organ donation, was granted by the human research committee.

*Outcomes: I suggest that you just state the type of outcomes as follows: