

# Abdominal Normothermic Regional Perfusion in Donation after Circulatory Death

## A systematic review and critical appraisal

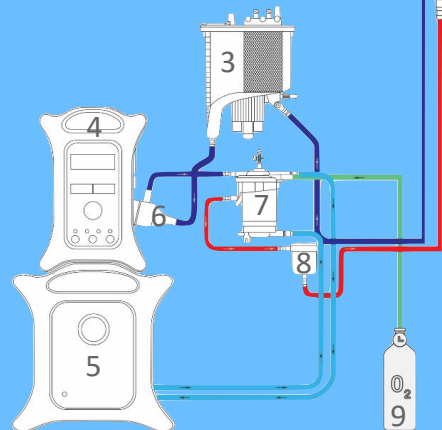
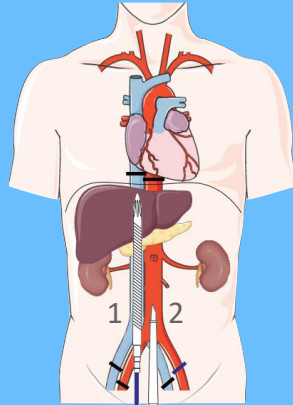
### Methods & aNRP Technique



1559 Articles Screened



24 Articles Included



1. Venous cannula
2. Arterial cannula
3. Reservoir
4. Pump Unit
5. Thermo Unit
6. Rotary Pump
7. Oxygenator
8. Leucocyte filter
9. Gas Mixer

### Rationale aNRP



Restoration Normothermic Oxygenated Circulation



Ischemic Injury



Energy Content



Blood Samples Macroscopic



Quality Assessment



DCD → DBD-type Operation



Organ Damage

### Results

- Feasible & Safe

- Function & Outcome Superior
- Liver & Kidney

- High Risk of Bias
- Heterogeneity Protocols

### Conclusion

A **randomized controlled trial** comparing aNRP with standard procurement technique in DCD donors would be **needed** to show the **added value** of the procedure and **determine its place** amongst **modern preservation techniques**.

F.E.M. van de Leemkolk et al. *Transplantation*. September 2020.

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