Abdominal Normothermic Regional Perfusion in Donation after Circulatory Death
A systematic review and critical appraisal

Methods & aNRP Technique

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

1559 Articles Screened
24 Articles Included

Rationale aNRP

Ischemic Injury
Restoration Normothermic Oxygenated Circulation

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.


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