



## The COMPARE Trial

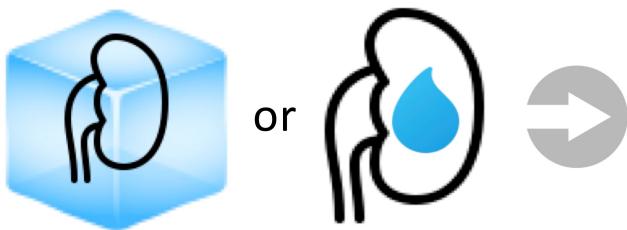
### Oxygenated Versus Standard Cold Perfusion Preservation in Kidney Transplantation



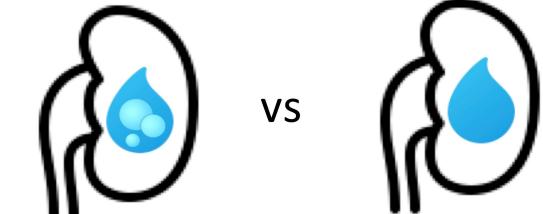
Lancet 2020: doi.org/10.1016/S0140-6736(20)32440-5



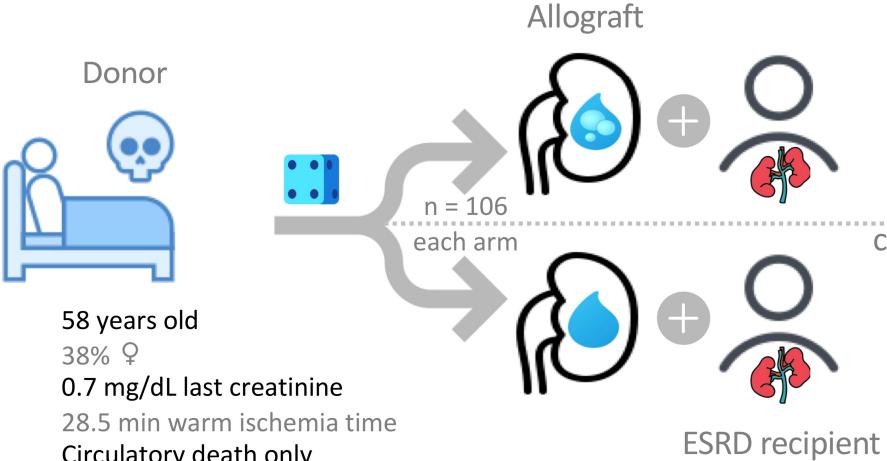
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1057661851759230978



- Common preservation techniques
- Cold preservation still results in hypoxic injury
- Hypoxic injury is a nonimmunological contributor of kidney allograft failure

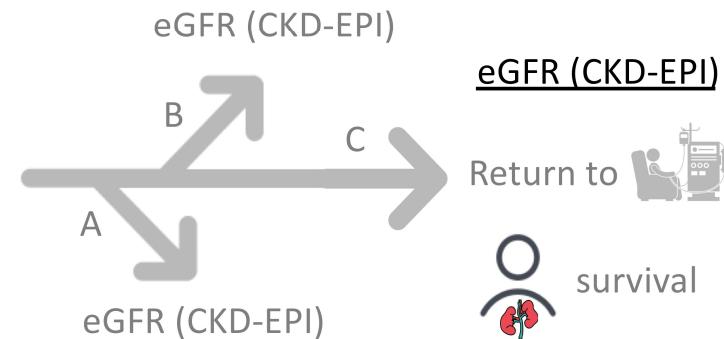
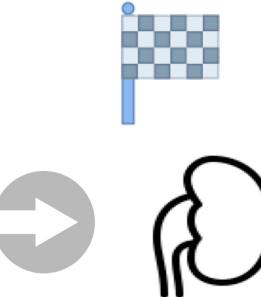


for improved allograft outcomes



35% ♀  
85% PRA 0-10%  
94% steroids  
97% tacrolimus  
98% mycophenolate  
11h cold ischemia time  
69% HLA mismatch ≥ 3

37% ♀  
84% PRA 0-10%  
93% steroids  
98% tacrolimus  
97% mycophenolate  
10.3h cold ischemia time  
71% HLA mismatch ≥ 3



Outcomes: Primary | Secondary

A: 3 months | B: 6 months | C: 12 months

University of Wisconsin Machine Preservation Solution | Temp 1-4°C | Perfusion pressure 25 mm Hg

= + PO<sub>2</sub> 600 mm Hg

**eGFR** > 3.7 mL/min/1.73 m<sup>2</sup> better  
**eGFR** > at 3 and 6 months



survival or return to

>

Statistical significance

Return to



- Need study with larger sample
- Need better measure of allograft function