

Kidney Assist Transport

The portable system for 100% oxygenated hypothermic perfusion of donated kidneys

Not approved for sales, pending regulatory approval

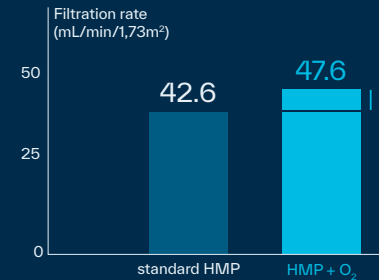
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COMPARE trial: new hope for kidney preservation¹⁰



The study investigated if supplemental oxygen during hypothermic machine perfusion improves outcomes of kidneys donated after circulatory death (DCD). The study was: randomized, controlled, multicenter, double-blinded, paired, n = 106 donor pairs from DCD donors age ≥ 50.

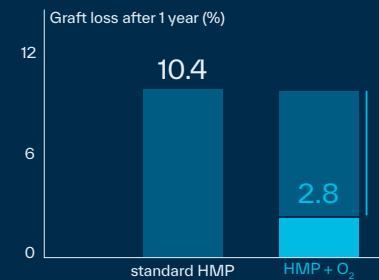
The study showed that:



Improved renal function by

11.7 %

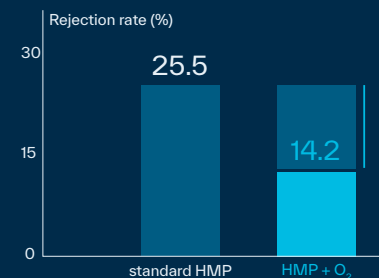
P=0.035



Reduction of graft failure by

73.1%

P=0.021



Lowered incidence of acute rejection by

44%

P=0.040

The study also suggests that hypothermic machine perfusion with oxygen (HMPO) can reduce:

- Severe complications
- Additional diagnostic procedures
- Hospital readmission
- Cost for chronic dialysis

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XVIVO's Kidney Assist Transport is a portable device that allows hypothermic pulsatile perfusion of donor kidneys with oxygenated solution for up to 24 hours.

Disposable Cartridge

Unique pre-assembled sterile set containing reservoir, pulsatile pump, oxygenator, filling line, sampling port and pressure sensor

Intuitive User Interface

Touch screen display for optimal interaction and visualization of the perfusion characteristics

Integrated Oxygenation

100% medical oxygen cylinder and regulator to ensure oxygenation

Rechargeable Batteries

Battery pack for 24 hours of perfusion. Additional use of auxiliary power possible

Ease of Use

Plug and play design to allow quick and easy setup, accessibility and safe handling

Integrated Design

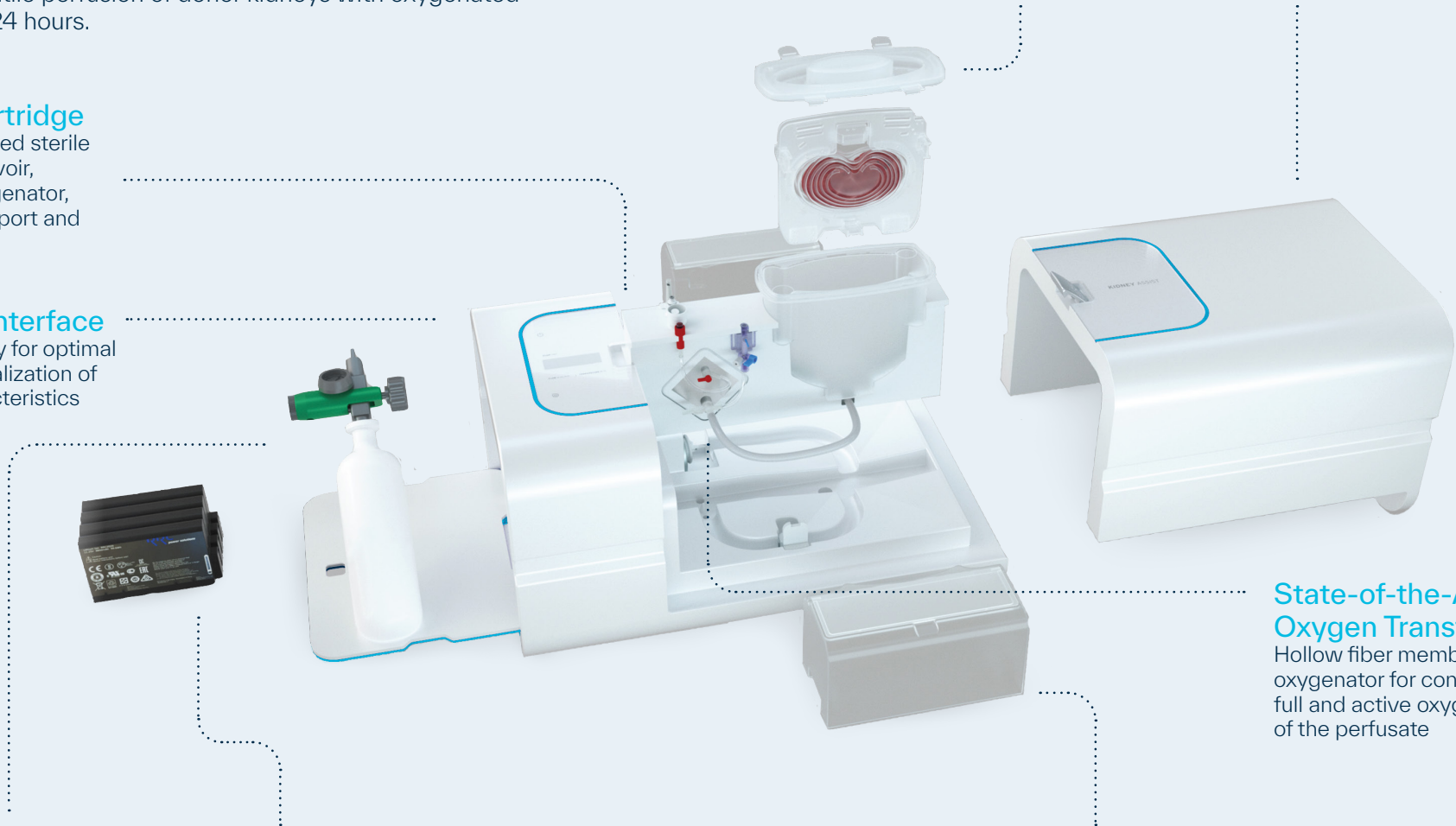
Container for optimal protection, insulation and easy cleaning

State-of-the-Art Oxygen Transfer

Hollow fiber membrane oxygenator for continuous, full and active oxygenation of the perfusate

Efficient Cooling

Easily accessible ice containers to ensure 24 hours hypothermic conditions



Unlock the power of oxygen with XVIVO's Kidney Assist Transport



Oxygenated



Pressure controlled pulsatile flow



Hypothermic perfusion



Unique patch holder for easy connection

Designed to facilitate anastomosis of the renal artery and eliminate the risk of direct cannula damage.¹

Improved transplantation outcomes with non-oxygenated hypothermic machine perfusion compared to static cold storage

Results from clinical trials demonstrate that hypothermic machine perfusion (HMP) compared to static cold storage leads to:

- Reduced risk of delayed graft function^{2,3}
- Improved graft survival at 1 and 3 years^{2,4}

Further it is demonstrated that HMP in DCD kidneys leads to:

- Reduced risk of delayed graft function^{5,6,7,8,9}
- Improved graft survival at 1^{7,8} and 3 years⁷

References:

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5. Jochmans I, et al. Machine perfusion versus cold storage for the preservation of kidneys donated after cardiac death: a multicenter, randomized, controlled trial. *Ann Surg.* 2010 Nov;252(5):756-64.
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XVIVO Perfusion AB, Box 53015, SE-400 14 Göteborg, Sweden
Tel +46 31 788 21 50 | xvivogroup.com

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