Transmedics OCS Heart Initiative Type Technology Status Deliver Added 31 January 2018 Last updated 04 January 2025 **URL**

Summary

exchange/transmedics-ocs-heart

Chronic heart failure (HF) is a progressive, debilitating chronic disease associated with significant risks of death. Heart transplantation remains the gold standard treatment for selected patients with end-stage HF failing modern day therapies. TransMedics Organ Care System (OCS) Heart (aka "beating heart in a box") is a portable perfusion system

https://cnxp3cuvtvrn68yjaibaht5ywrxspj7m.clinicalexcellence.qld.gov.au/improvement-

is one of only three hospitals in Australia using this technology in specific circumstances.
Key dates
Sep 2016
Sep 2018
Implementation sites
The Prince Charles Hospital
Key Contacts
Jacqui Thomson
7372
Anonymous
Manager
Healthcare Improvement Unit
(07) 3328 9283
secretariat_hta@health.qld.gov.au
Aim
Provides an opportunity to pilot and evaluate new technologies within 'real world' clinical settings in

that allows the heart to be kept in a warm and functioning state (i.e. beating) outside of the body.

the Queensland context.

Benefits

The potential benefits of this technology include:

- OCS Heart allows clinicians to monitor, assess and re-condition the donor heart during transport.
- Maintaining the donor heart in a normal or close to normal physiological state provides better preservation of the organ during transport.
- OCS Heart minimises the risk of adverse post-transplant outcomes and improves post-transplant outcomes.
- The window of time to perform transplants is expanded from 4 hours using cold storage up to 8 hours using OCS Heart, before the heart starts to deteriorate.
- Using OCS Heart may expand the potential heart donor pool and reduce the average heart transplant recipient wait list time by as much as 20-30%.
- OCS Heart will allow the viability of donor organs to increase and for the hospital to perform additional transplants each year.

Background

This technology was funded through the New Technology Funding and Evaluation Program (NTFEP). The NTFEP funds the introduction and evaluation of new technologies that:

- Are safe and effective
- Provide better health outcomes
- Provide value for money
- Provide greater access to care.

The evaluation findings will inform recommendations regarding the future use and/or investment of the technology within Queensland.

Evaluation and Results

Key findings will be published at the end of the evaluation period.

Resources	
Technology Evaluation Summary	
PDF saved 03/06/2025	