
MiraQ Cardiac

Initiative Type

Technology

Status

Deliver

Added

26 April 2018

Last updated

06 December 2019

URL

<https://clinicaexcellence.qld.gov.au/improvement-exchange/miraq-cardiac>

Summary

The MiraQ Cardiac combines ultrasound imaging and transit time flow measurement (TTFM) in a single system that is specifically designed for cardiac surgery. There is growing support that checking grafts and anastomoses during cardiac surgery should be standard of care. Epicardial ultrasound gives a simple, fast and safe imaging of the coronary stenoses and graft anastomoses, providing immediate feedback on the quality of the CABG surgery. Performing flow measurements is the

quickest and most accurate way to verify graft patency while patient is still in the operating room.

Key dates

Sep 2017

Sep 2019

Implementation sites

Gold Coast University Hospital

Key Contacts

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Aim

Provides an opportunity to pilot and evaluate new technologies within 'real world' clinical settings in the Queensland context.

Benefits

Expected benefits of MiraQ Cardiac are:

- **Improved outcome** – assessment with ultrasound imaging and TTFM during cardiac surgery protects the patients from serious adverse events and death.
- **Instant response** – the MiraQ Cardiac provides instant feedback on the performance of the graft eliminating guesswork and failure.
- **Reduce RE-DO cases** – any occluded or under-performing grafts can be revised on the spot and take any measure to avoid recalls. Reduce re admissions and length of stay in ICU.
- **Guided workflow** – minimize user interaction and increase work efficiency due to measurement definitions and system configurations.
- **Reduced MACCE** (Major Adverse Cardiac and Cerebrovascular event) – epiaortic imaging provides a sensitive and direct diagnosis of aortic disease that can lead to changed surgical strategy and reduced rates of major adverse cardiac and cerebrovascular events.
- **Operating room integration** – export and import data – the system is equipped with an isolated network connection allowing for safe and secure access to the hospital network.

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 02/04/2025