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# 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

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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.

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## 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

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[Technology evaluation summary](#)

PDF saved 06/02/2025