
HFA3 – Liquid Lens Assisted Visual Field Analysis

Initiative Type

Technology

Status

Deliver

Added

01 February 2018

Last updated

01 October 2024

URL

<https://test.clinicalexcclence.qld.gov.au/improvement-exchange/liquid-lens>

Summary

This project has been discontinued and is not supported anymore. As a result, there are no project contact details available. Currently, visual field analysis is carried out with an appropriate lens in the trial frame. This has to be calculated by allied health staff and then the appropriate lens is inserted into the frame. This is a time consuming process. The new technology will eliminate this step by incorporating a liquid lens that automatically adjusts to the patient's refractive error. When

pressure within the lens is gradually increased the lens shape changes to suit each patients individual spectacle prescription. It reduces patient setup time by automatically loading the patient's refractive correction from their previous exam. The result is faster patient flow and reduced chance of error when selecting a lens during test while making the process less time consuming.

Key dates

Sep 2016

Sep 2019

Implementation sites

Prince Charles Hospital, Royal Brisbane and Women's Hospital

Partnerships

Healthcare Improvement Unit

Key Contacts

Project discontinued

1025

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Project discontinued

Queensland Health

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Aim

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

Benefits

The potential benefits of this technology includes:

- The new HFA3 with liquid lens is much easier to set up for staff and non-invasive to patients improving patient comfort.
- An increase in the ability to provide a larger number of tests for the hospital community.
- The modern HFA3 unit will integrate better with digital networking and data applications streamlining patient clinical information.
- The liquid trial lens can be used on 90 per cent of patients with a refractive error.
- Improved clinic flow leading to reduced patient waiting time for and during appointments.
- Reduction in time spent on field analysis and improved efficiency in the Ophthalmology department.

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 21/06/2025