

---

# Clarity® Autoscan

Initiative Type

Technology

Status

Deliver

Added

01 February 2018

Last updated

27 September 2018

URL

<https://clinicaexcellence.qld.gov.au/improvement-exchange/clarityr-autoscan>

## Summary

The Clarity Autoscan system allows prostate position to be monitored in real-time during radiation therapy, through the use of an ultrasound (US) probe placed against the patient's perineum. The prostate can move up to 2.5cm during treatment, displaced by rectal and/or bladder filling. The Clarity Autoscan system is intended to monitor prostate position, to ensure that radiation is correctly delivered to target tissue. This increases tumour control probability, and reduces off-target radiation

---

side effects on nearby male pelvic structures, such as the rectum and bladder.

## Key dates

Sep 2017

Sep 2019

## Implementation sites

Townsville Cancer Centre, The Townsville Hospital

## Partnerships

Healthcare Improvement Unit

## Key Contacts

Jacqui Thomson

1036

[paul.blee.hiu](mailto:paul.blee.hiu)

Manager, Healthcare Evaluation and Assessment of Technology

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 the Queensland context.

## Benefits

The potential benefits of this technology includes:

- The Clarity Autoscan system should interrupt treatment if the prostate moves out of target position.
- A reduction in treatment toxicities should lead to improved patient quality of life.
- The Clarity Autoscan system should be well tolerated by patients, and most should be comfortable during treatment.
- The Clarity Autoscan system should result in improved oncological outcomes.
- The Clarity Autoscan system should allow for disinvestment in the use of fiducials.
- Radiation therapists are anticipated to become rapidly proficient in using the Clarity Autoscan system.

## 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 assessment summary](#)

PDF saved 06/02/2025