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# Ultra-V™ Disinfection Robot

Initiative Type

Technology

Status

Deliver

Added

01 February 2018

Last updated

16 March 2023

URL

<https://test.clinicalexcelsence.qld.gov.au/improvement-exchange/disinfection-robot>

## Summary

The Ultra -V disinfection robot utilises no-touch ultraviolet light decontamination, in conjunction with current hospital disinfection processes, to provide more reliable terminal cleaning of patient environments, reduce healthcare associated infections and improve environmental hygiene. The Ultra -V produces ultraviolet light radiation (UV-C, wavelength 100-280nm) which exerts broad-spectrum germicidal activity through the breakage of molecular bonds within bacterial and viral DNA,

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destroying micro-organisms. Indications for use include enclosed and vacated spaces (e.g. single patient rooms, bathrooms, operating theatres, treatment rooms).

## Key dates

Sep 2017

Sep 2019

## Implementation sites

Princess Alexandra Hospital

## Partnerships

Healthcare Improvement Unit

## 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**

The potential benefits of this technology include:

- Improved environmental hygiene-reduction of multi-drug resistant organisms (MDROs) in the patient environment.
- Reduction of patient length of stay due to MDROs – improved patient flow.
- Reduction in the number of subsequent terminal cleans required due to MDROs.
- Reduced patient to patient transmission of and healthcare associated infections.
- Reduced patient anxiety and dissatisfaction resulting from MDRO acquisition.
- Increased environmental staff satisfaction.

## **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.

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## Resources

[Technology evaluation summary](#)

PDF saved 20/09/2024