# Initiative Type Technology Status Deliver Added 01 September 2017 Last updated 27 September 2018 **URL** https://clinicalexcellence.qld.gov.au/improvement-exchange/fluorescence

**Near Infra-Red Fluorescence** 

## **Summary**

Real-time intraoperative near-infrared fluorescence (NIRF) imaging is a technique used for sentinel lymph node (SLN) detection. By using a NIR fluorescent dye such as indocyanin green (ICG), and a sensitive fluorescence camera system, SLN's can be located intra-operatively for examination. Although this technology has been employed for breast, skin and colorectal cancers, in this instance it will be investigated for endometrial cancer. Where SLN's are positive for metastases, the patient

dissection has not been performed. If the SLN is negative, patients can be spared further therapy.
Key dates
Jan 2018
Dec 2018
Implementation sites
Royal Brisbane and Women's Hospital
Partnerships
Healthcare Improvement Unit
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will undergo adjuvant radiation and chemotherapy but with reduced morbidity as a full lymph node

### 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:

- NIRF with ICG will assist in mapping the SNL location.
- NIRF with ICG should reduce the rate of adjuvant radiation and/or chemotherapy given to patients.
- NIRF with ICG is feasible and safe and should replace full lymph node dissection.
- NIRF with ICG will reduce the number of full pelvic lymphadenectomies required.
- NIRF with ICG should reduce surgical morbidity for the patient and also reduce morbidity associated with lymphoedema.
- NIRF with ICG should be tolerated by the patient with very low risk of side effects.

## **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**

This technology is currently under evaluation and results will be published on completion.

Resources
Technology evaluation summary
PDF saved 03/04/2025