





Benefit

Overtime worked by RN's due to

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Patient has poor understanding

of their procedure.

ISLHD Staff

Case for change

- 10% increase interventional radiology (IR) procedures 4 years
- Scheduling practices were not reliable
- 66% interventional radiology procedures have some type of
- Poor Patient and Staff experience

Adam's Journey

- Request lost
- Family complains day 5
- Registrar complains day 7



35% of these delays are caused by inappropriate preparation

Staff Survey 70% Dissatisfied with Scheduling Process "Poor organisation, cases booked regardless of Radiologist availability"

Goal

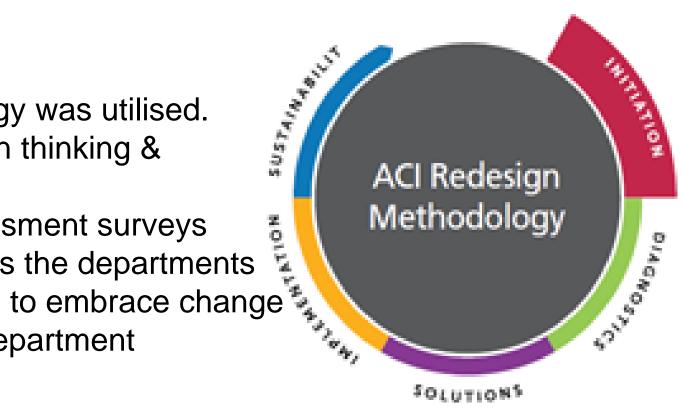
To design and deliver an efficient interventional radiology service to manage increasing activity, that enables improved patient access, preparation and safe scheduling practices in ISLHD by August 2019.

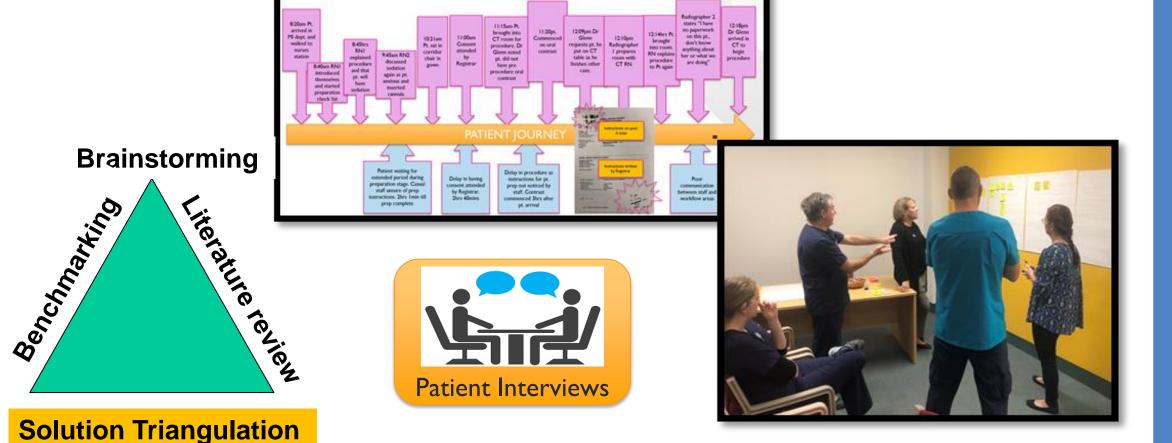
Objectives

- To increase staff satisfaction with access to IR proceduralist from 4% to 70%
- To decrease IR procedure delays/cancelations by inappropriate patient preparation from 35% to 10%
- To increase patient satisfaction:
- With procedural information prior to their IR procedure from 56% to 90%
- With waiting times from 50% to 90%
- To increase:
- Documentation of receipt of outpatient IR request forms from 0% to 100%
- Staff satisfaction with IR scheduling process from 30% to 70%
- Appropriate timing of consent from 38% to 100%

Method

- Clinical Redesign Methodology was utilised.
- Process redesign utilised lean thinking & co-design principles
- Implementation Health Assessment surveys were used internally to assess the departments past experiences and climate to embrace change
- AIM training for key staff in department





Diagnostics Patients arrive from other ward/site

with inappropriate preparation causing delays and cancellations.

• Only 18.5% of ISLHD preparation survey (n=37)

97% of staff

Radiologist not

ready when pt.

ready, most

common cause

of delay to IR

procedures

Long waiting

times in

department prior

to procedure.

75% of staff had no access to protocols/ guidelines. procedure.

• 1 pt. delayed

rescheduled

55% of staff

identified pt.

inappropriately

prepared as a

1 patient

Patient instructions clear. Interview Radiologist not ready/available (n=16)when patient ready in room for

IR Procedures (n=32)

44% reported a negative experience in regards to procedural information

60% not confident to

was not informed

information with "Lack of

knowledge" being the most

Tag-a-long (n=6) Outpatient requests left on desk/ no digital entry Inpatient requests awaiting review by Radiologist left on desk.

No system for regular review of IR Procedural data.

Scheduling process- forms lost, no

date of receipt, IR procedures booked

and staff not available.

58% of staff

unaware of

Radiologist

credentialing

"I know some

but not all of

them, no set

list written for

quick

reference"

Staff Survey (n=34)

70% of staff

dissatisfied with

scheduling process.

No standard approach to 'start' and 'end' times entered in RIS No day/time record for patient 'in room' and 'out of room' for IR Procedures.

No ability to review system with

comparable data

Poor communication/ coordination between staff during patient

preparation

"Then he bowled

in...it was

10:30am...he

was 1Hr late. We

were ready to

go...he wasn't"

"The communication between your staff is very very poor. And then we're talking to this nurse and she didn't seem to know whether I was going to have this anaesthetic or not. The other one told me I was and this one didn't know whether I was or not. It was a bit traumatic in some ways cause I'm sitting there thinking now am I going to get this or aren't I?" **Patient Interview**

"I had no idea what was involved and it wasn't until after the nurse asked me to take off my pants and I saw the 'tools' that I realised it was going up my bum." Patient Sep 2018

Solutions

- Creation of eMR template for Preparation instructions/procedure requirements
- Creation of IR Patient Information brochure
- ❖ New patient retrieval/arrival time guidelines
- ❖ Pilot new role Interventional Radiology Procedure (IRP) Liaison Nurse
- Improvements in team communication

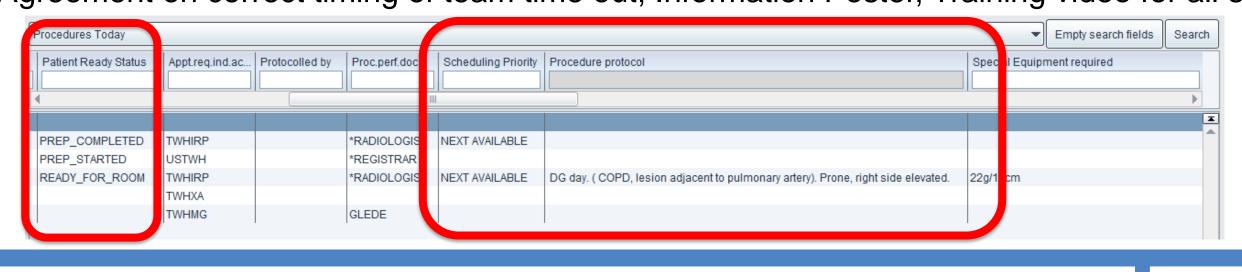
"Someone who's been given weeks to live, they don't

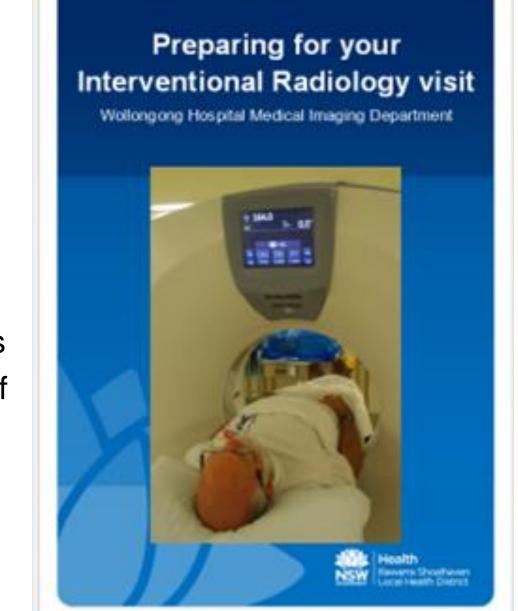
need to be down there for two hours in that

environment. I found it really disgusting.

Patient Carer

- Nursing communication 'huddles' led by NUM
- Allocation of individual nursing staff for each patient preparation
- 'Scripted' handover from corridor nurse to procedure team
- New text fields in RIS to allow for visibility of patient readiness + Radiologist instructions
- ❖ Agreement on correct timing of team time out, Information Poster, Training video for all staff





Acknowledgements

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Results scheduled procedures running overtime April to July 2018- 15.5hrs **Project Objectives** April to July 2019- 1.5hrs ■ 2018 ■ 2019 Increase Increase staf satisfaction with appropraite with access to IR outpatients experience with IR scheduling timing of proceduralist delays due to information requests scanned into RIS wait times consent inapproprate pt "I did receive a call a week "This is actually very good... before the first appointment ...she came and explained what usually have to ask my Nurse which was great. The lady was going to happen and gave me Educator what to do" explained what was going to an information booklet. I was very "We read the [patient happen and listed what I needed preparation] note at handover glad she did I knew what was in terms of blood tests etc. to this is really good" going to happen and how long it ensure I got the procedure"25/7 was going to take. It took all the **Patient Interview August 2019** worry out of what was going on." ISLDH staff May 2019, regarding IRP nurse eMR **Patient Interview August 2019** procedure booking and preparation instructions

Sustaining change

- Workforce review for both Nursing and Radiologist workforce
- Development of procedure for Interventional Radiology Procedural Liaison Nurse role
- AIM training for key departmental staff
- Development of departmental training video for correct team time out procedure
- Daily huddle included in NUM's KPI's
- Acquisition of Philips Performance Bridge software package for automated auditing and report generation of Interventional Radiology procedural data

Conclusion

The creation of a patient focussed liaison role (Interventional Radiology Procedural Liaison Nurse) that provides patient education (inpatient and outpatient), organisation and coordination of procedural preparation and scheduling times, has resulted in improved patient and ISLHD staff experiences.

This Clinical Redesign project has also improved service delivery by reducing nursing overtime, procedural delays and/or cancellations. Other clinical departments have expressed an interest in creating similar roles for their services. The improvements to the Radiology Information System (RIS) and introduction of communication huddles has provided an opportunity for staff to improve patient safety and clinical team communication. Staff satisfaction with access to Radiologists should improve once the workforce issues have been resolved.