Using Qlik Sense for Care Redesign

Health Informatics New Zealand Conference



1.0 Does this look familiar? Theatre Costing Allied Health **Patient** Information Laboratory Radiology **Analytics Team** Research Waitlist **i3 Everyone else Our data**

The tool must benefit clinicians wanting to improve patient outcomes and experience

2.0 **Aim**

- Implement across all clinical services
- Clinical focus
- Enable service improvement
- Clinician developer community
- 1000 users in 2 years



Approach

Start simple Work on areas that add value Prioritise the willing Clear pre-requisites Keep the scope clear

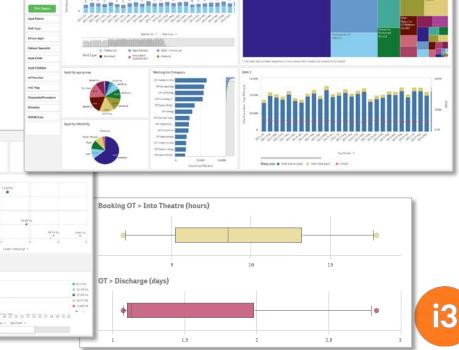
Achieved to date

- ✓ 21 apps in 7 months
- √ 360 users
- ✓ 2 improvement projects

1,222

60

3.01

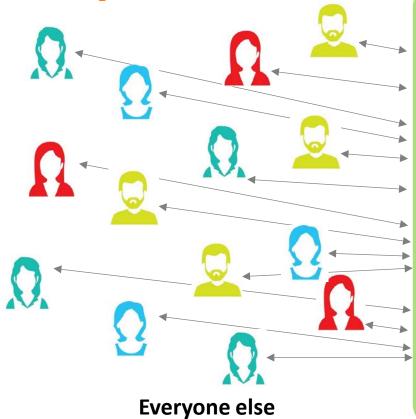


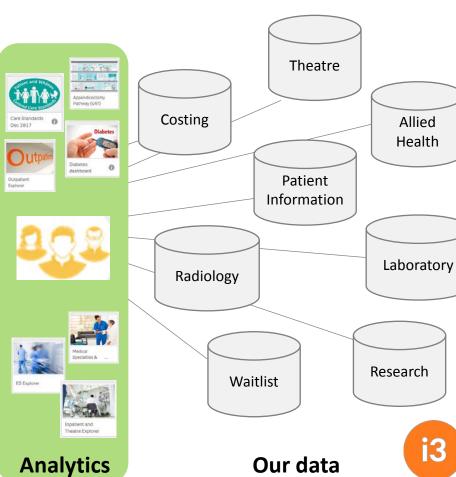
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The picture now





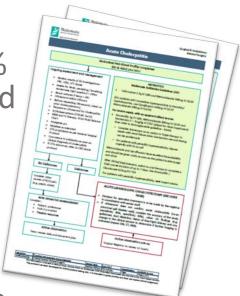
i3

3.0 Clinical Pathways

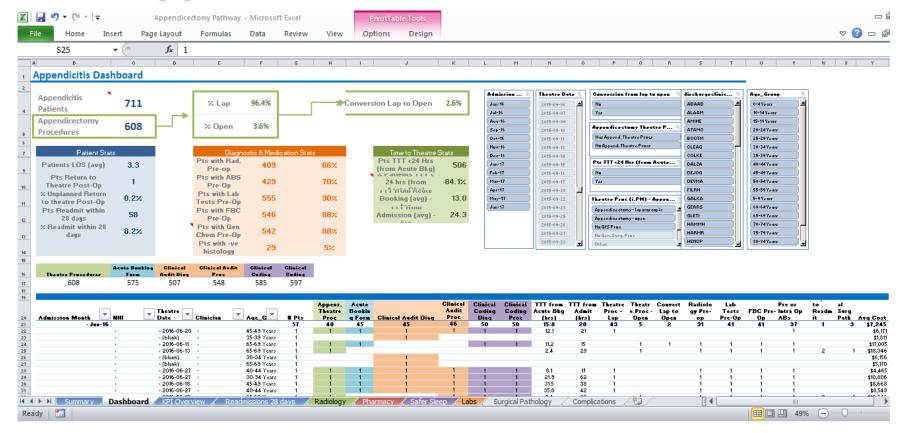
 Based on Intermountain Healthcare model developed by Dr Brent James

 Focus on pathways that account for 65% of all acute general surgery cases booked for theatre

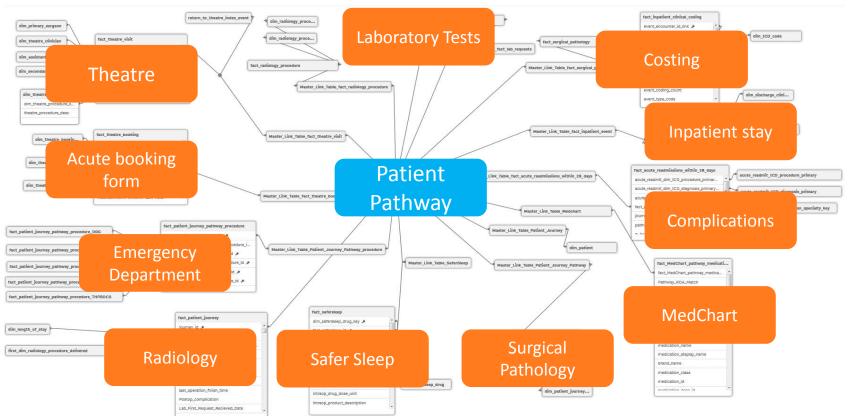
- Appendicitis
- Acute Cholecystitis
- Abscess
- Protocols developed by SMOs for WDHB
- Development of KPIs



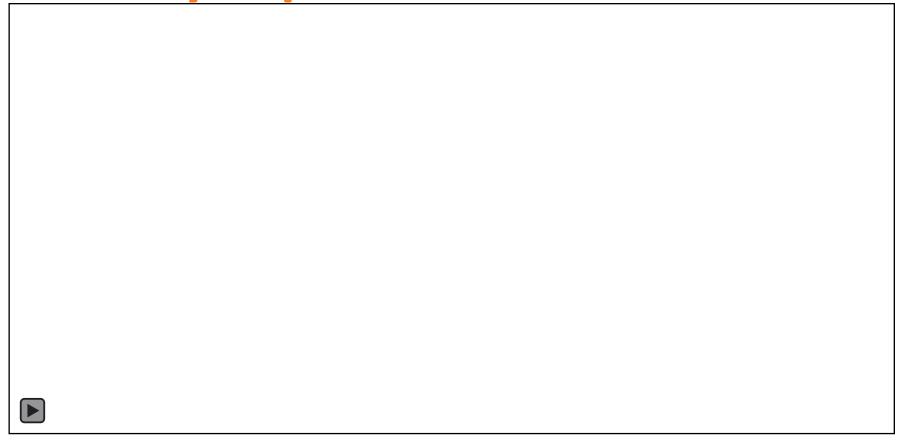
Prototype



Challenge: Join disparate datasets



Pathway Explorer



4.0 Quality Improvement

- Increase adherence to protocol
- Identify focus areas to reduce length of stay for "healthy uncomplicated", improving patient experience and outcomes



VTE Prophylaxis <= 6 hrs (admit) ₽	Labs <= 2 hrs (admit) &
45%	83%
Ptn with CT/US scan(s) ₽	Radiology <=6 hrs (admit) ₽
69%	53%
Acute Bkg to Theatre <= 24 hrs ₽	% Lap > Open Conversion ๗
84%	3%
0470	370
Antibiotics given	Pre-op CRP>=100 to theatre 24hrs ₽
91%	78%
% Post-op complications *	Re-operation / return to theatre
4%	1%
Discharged <=6 hrs (theatre) ₽	Acute readmissions* ₽
1%	6%
170	070

4.0 Next steps

"This enables me to answer questions I didn't even know to ask!"

ED SMO







Without data you're just another person with an opinion.

W. EDWARDS DEMING