

Whole of Hospital Program Master Class

Shifting the balance of care

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Overview of SESLHD



- SESLHD covers nine Local Government Areas from Sydney's CBD to the Royal National Park
- Population of over 830,000 people, which includes highly urbanised areas of eastern Sydney and southern Sydney



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Overview of SESLHD

- Eight public hospitals including:
 - Two principal referral hospitals; Prince of Wales Hospital and St George Hospital
 - Two specialist referral hospitals; The Royal Hospital for Women and Sydney/Sydney Eye Hospital
 - One major metropolitan hospital; The Sutherland Hospital
 - Four emergency departments (EDs)



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Our Emergency Departments

- 174,299 presentations in 2014 across four EDs
- Located at Prince of Wales Hospital, St George Hospital, Sutherland Hospital, Sydney Hospital
- New St George Hospital Emergency Department opened in October, 2014



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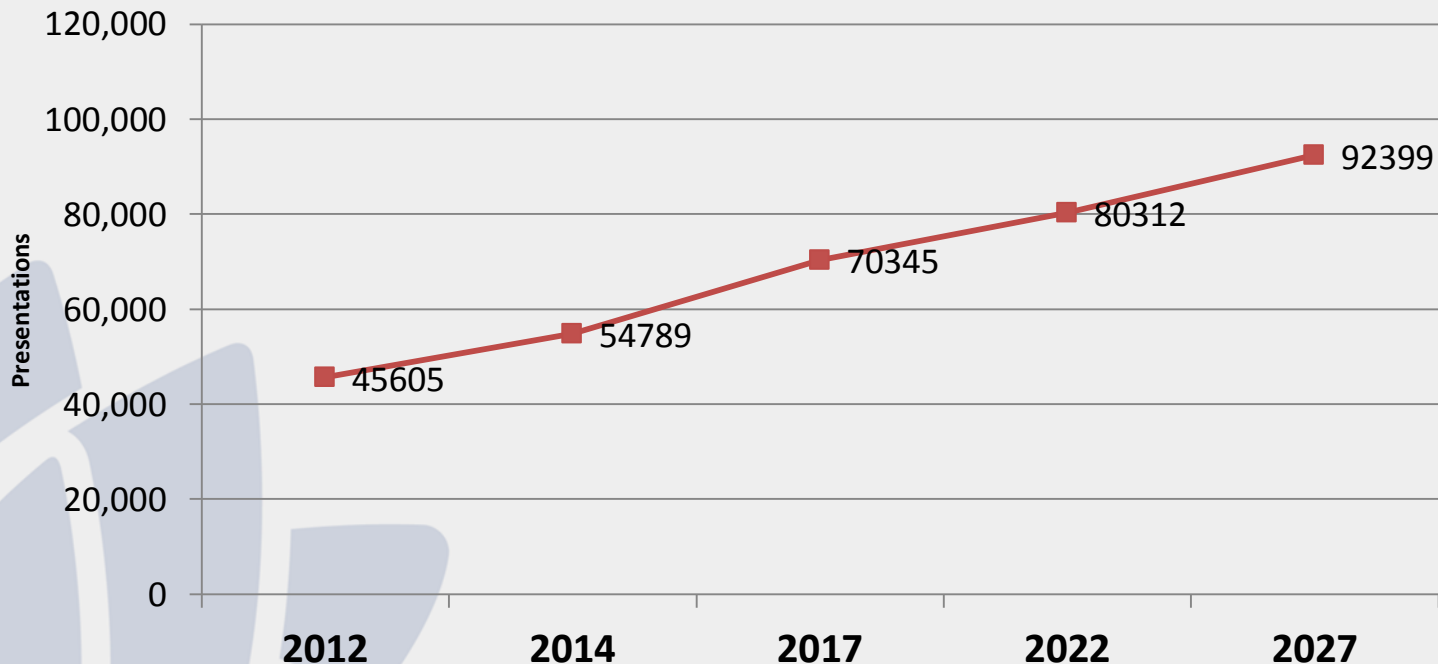
Current State



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POWH Projected ED Presentations

Prince of Wales Hospital Projected ED Presentations



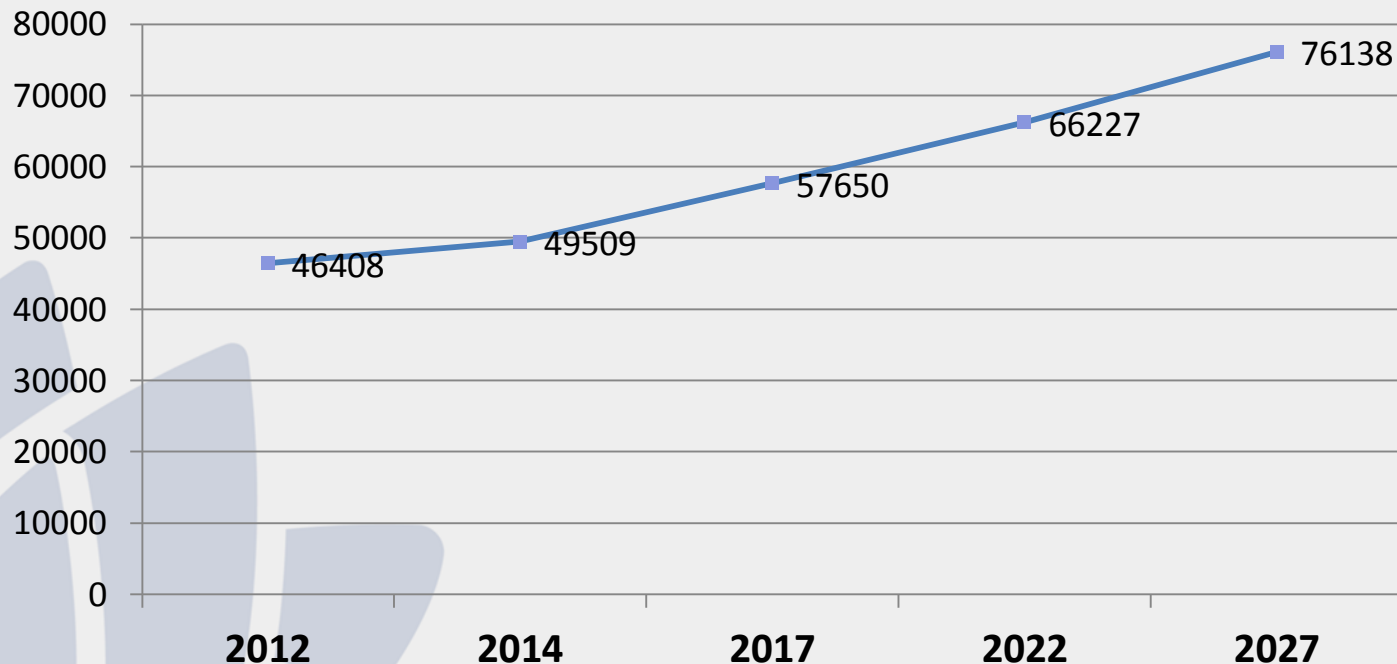
● 200% increase in 15 years



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TSH Projected ED Presentations

Sutherland Hospital Projected ED Presentations



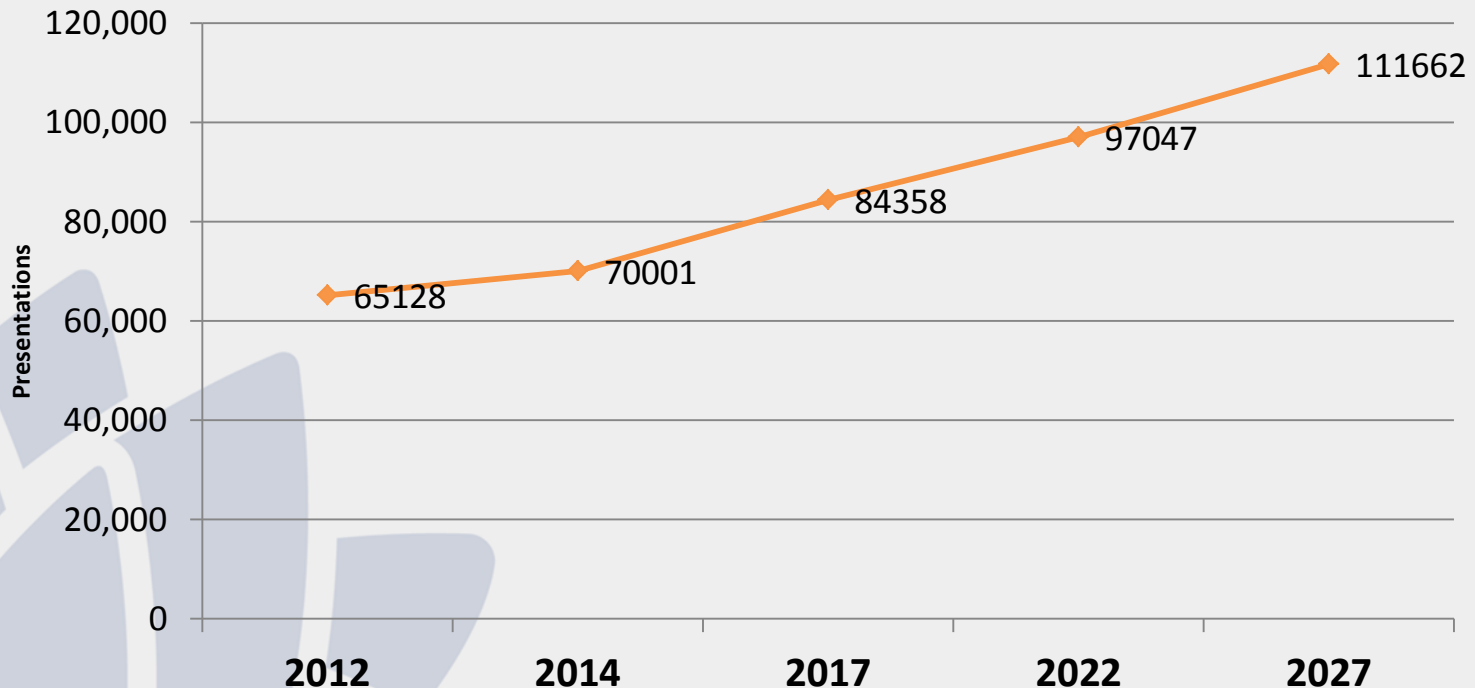
● 164% increase in 15 years



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SGH Projected ED Presentations

St George Hospital Projected ED Presentations



● 170% increase in 15 years



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SGH Projected ED Presentations

Scenario builder

Site: **St George Hospital** Role delineation level: **6**

	Base case	Scenario 1	Scenario 2
Change in the annual volume - admitted patients (%)	20%	-10%	-10%
Change in the annual volume - non admitted patients (%)	20%	-10%	-10%
Length of stay (hrs) - admitted	5.70	6.18	5.00
Length of stay (hrs) - non-admitted	2.82	3.17	2.50
Grand Total (hrs)	3.80		

Instructions:

Only edit cells that are this colour:

Do not edit any other cells.

	Base case				
	2012	2017	2022	2027	CAGR
Presentations - admitted (0-15 years)	1,750	2,955	3,604	4,295	6.2%
Presentations - admitted (16+ years)	20,896	26,782	32,626	39,984	4.4%
Presentations - admitted (total)	22,646	29,738	36,230	44,278	4.6%
Presentations - non admitted (0-15 years)	11,792	10,824	12,282	13,604	1.0%
Presentations - non admitted (16+ years)	30,690	43,796	48,535	53,780	3.8%
Presentations - non admitted (total)	42,482	54,620	60,817	67,384	3.1%
Presentations (Total)	65,128	84,358	97,047	111,662	3.7%

% admitted	35%	35%	37%	40%
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NWAU13 estimate	8,060	10,474	12,221	14,282
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Facility requirements (i.e. beds required)

Resuscitation	4	6	6	7
Adult	30	41	48	56
Paediatric	6	7	8	9

Isolation room	2	2	2	2
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	Scenario 1				
	2012	2017	2022	2027	CAGR
Presentations - admitted (0-15 years)	1,750	3,547	4,325	5,154	7.5%
Presentations - admitted (16+ years)	20,896	32,139	39,151	47,980	5.7%
Presentations - admitted (total)	22,646	35,685	43,476	53,134	5.9%
Presentations - non admitted (0-15 years)	11,792	12,989	14,738	16,325	2.2%
Presentations - non admitted (16+ years)	30,690	52,555	58,242	64,536	5.1%
Presentations - non admitted (total)	42,482	65,545	72,980	80,861	4.4%
Presentations (Total)	65,128	101,230	116,456	133,995	4.9%

% admitted	35%	35%	37%	40%
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NWAU13 estimate	8,060	12,569	14,666	17,139
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Resuscitation	4	7	8	9
Adult	33	54	63	74
Paediatric	7	9	11	12

Isolation room	2	2	2	2
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	Scenario 2				
	2012	2017	2022	2027	CAGR
Presentations - admitted (0-15 years)	1,750	2,660	3,244	3,865	5.4%
Presentations - admitted (16+ years)	20,896	24,104	29,363	35,985	3.7%
Presentations - admitted (total)	22,646	26,764	32,607	39,851	3.8%
Presentations - non admitted (0-15 years)	11,792	9,742	11,053	12,244	0.3%
Presentations - non admitted (16+ years)	30,690	39,416	43,681	48,402	3.1%
Presentations - non admitted (total)	42,482	49,158	54,735	60,646	2.4%
Presentations (Total)	65,128	75,922	87,342	100,496	2.9%

% admitted	35%	35%	37%	40%
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NWAU13 estimate	8,060	9,427	10,999	12,854
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Resuscitation	4	5	6	7
Adult	27	32	38	44
Paediatric	6	6	6	7

Isolation room	2	2	2	2
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Projections for NSW in 2022

- ED presentations to increase from 2.3 million to 3.2 million
 - Increase of 38%
- NWAUs are to increase by 111,622
 - additional annual operational cost of \$521 million using NWAU13 and the State Efficient Price
- With no change to current practise an additional 594 treatment spaces will be required by 2022.



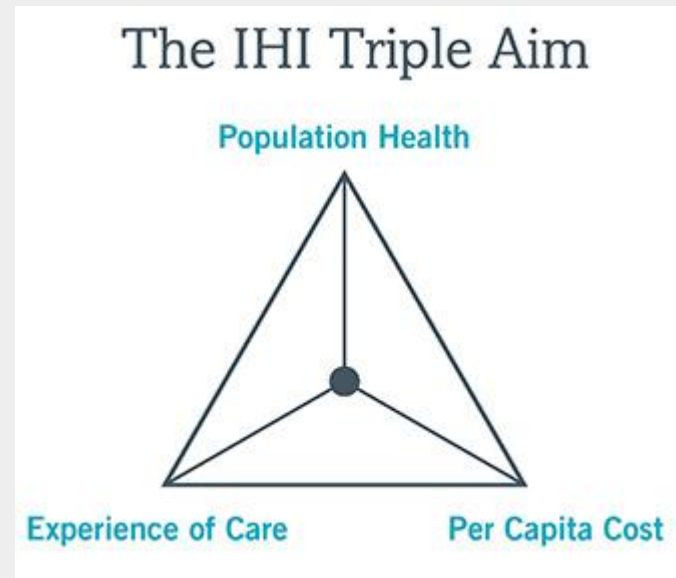
Preparing the Case for Change



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SESLHD's Roadmap

- Triple aim:
 1. Quality of care
 2. Health of the population
 3. Value and financial sustainability



Based on the IHI Triple Aim

<http://www.ihl.org/Engage/Initiatives/TripleAim/pages/default.aspx>



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SESLHD's Roadmap

- Triple aim:
 1. Quality of care
 - Improved by patients remaining out of hospital
 - Reducing risk and unnecessary hospitalisations
 2. Health of the population
 - Improved through new self-management models
 - Improved case management
 3. Value and financial sustainability
 - Through the efficiency delivered through rebalancing care



Quality of Care

- Improving the way we deliver emergency services
 - We now recognise that current ABF model rewards growth and believe the model should recognise and reward shifting the balance of care to the primary sector with more hospital substitution.
 - SESLHD will internally introduce a KPI for our facilities and reward this in 2015/16.



Do we understand why patients come to our Emergency Departments?



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Understanding Our Business

- Information gaps:
 - How many patients attempted to see a GP before presenting to ED?
 - How many patients were waiting to see a specialist when they presented to ED?
 - For how many days were patients sick before they presented to ED?
 - How many of our ED presentations could have been better managed with a scheduled appointment?



Do we understand why patients
come to our hospitals?



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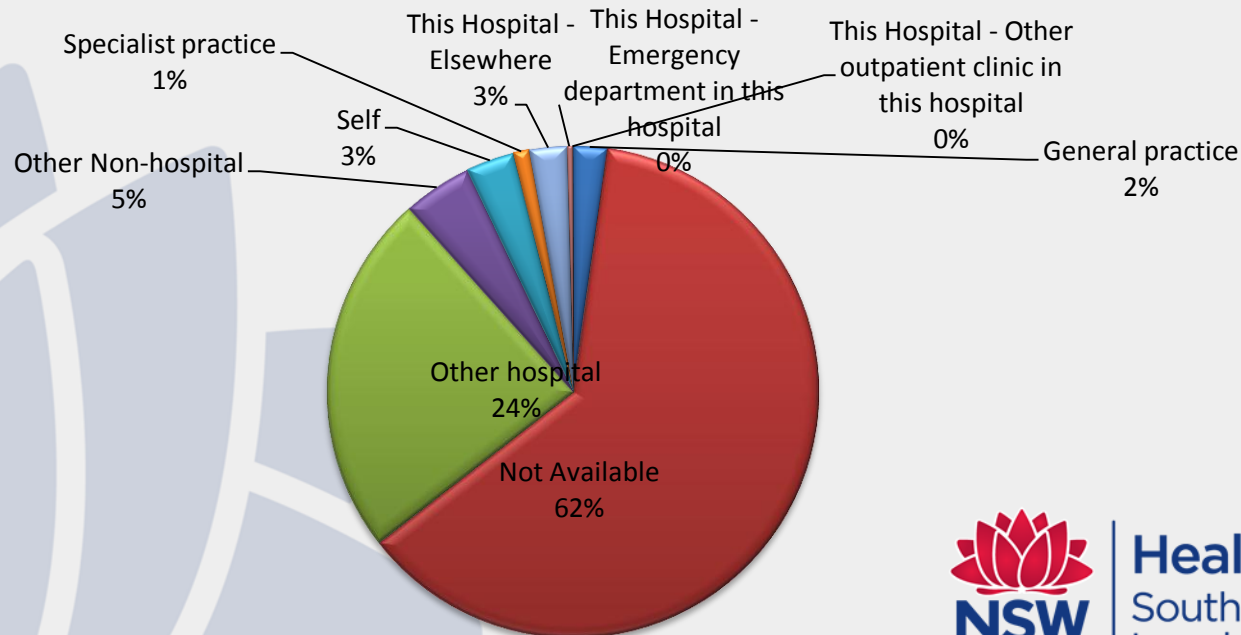
Outpatient Clinics

- Information gaps:
 - We currently only collect referrals for billing purposes, not to improve our understanding of the use of Outpatient Departments
 - Do we know how many GPs have access to our clinics?
 - Do we understand the clinical urgency of patients coming to our outpatient clinics?
 - Do we have consistent criteria for access to our outpatient clinics?
 - Do we have a strategic intent for the management of our outpatient clinics?



Outpatient Clinics

- Prince of Wales Hospital Outpatient Department
 - Referral data is currently only available for 38% of outpatient occasions of service
 - Approximately 230,000 occasions of service in one year



OPD Source of Referral



Future State



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What are we currently doing to address Emergency Department demand?



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New St George Emergency Department

- A range of strategies to communicate with and educate the general public
 - Community Open day before the official opening
 - Marketing campaign: **Save our Emergency Department for real emergencies**



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New St George Emergency Department

- Marketing campaign: **Save our Emergency Department for real emergencies**
 - Through a social media campaign e.g. Twitter, internet pages, news articles, advertising on local buses

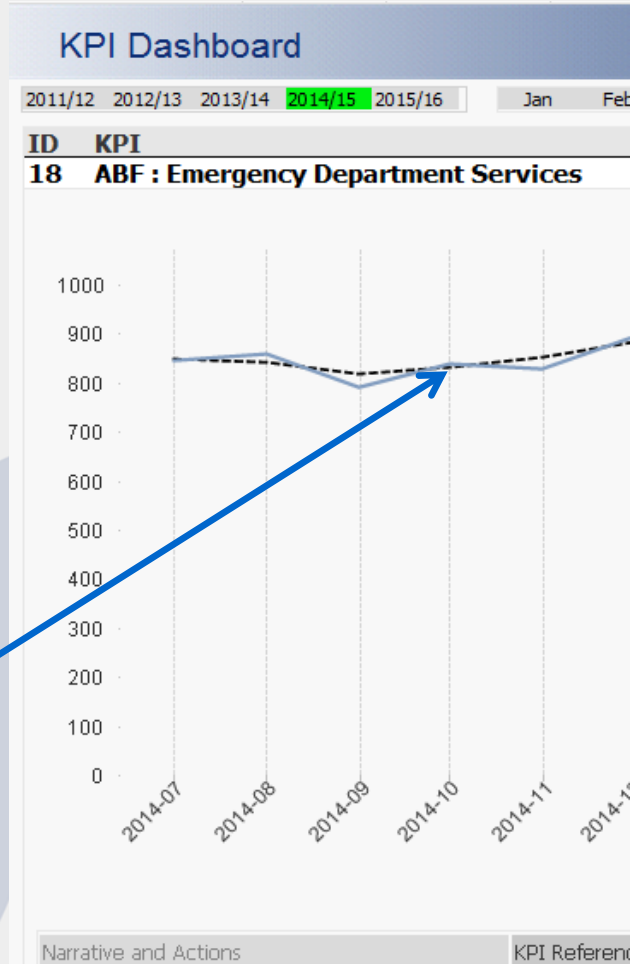


NSW
GOVERNMENT

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New St George Emergency Department

- ABF Activity



New ED
Opened



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Lightfoot

- Lightfoot is an international company that designs solutions to help organisations maximise their performance and efficiency
- Lightfoot will be used by SESLHD as a pilot sponsored through the Ministry of Health



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Lightfoot Data

- Lightfoot will be used to:
 - Create a live data feed of patient data from pre-presentation to discharge
 - Assist the integration of the patient journey through identifying the avoidable delays, such as those created through
 - Additional medical consults
 - Multiple patient relocations around the hospital
 - Waiting for diagnostics
 - Promote improvement through analytical changes made in the system, giving control charts and run rates to measure improvement
- The data can be seen by clinician or sub-speciality



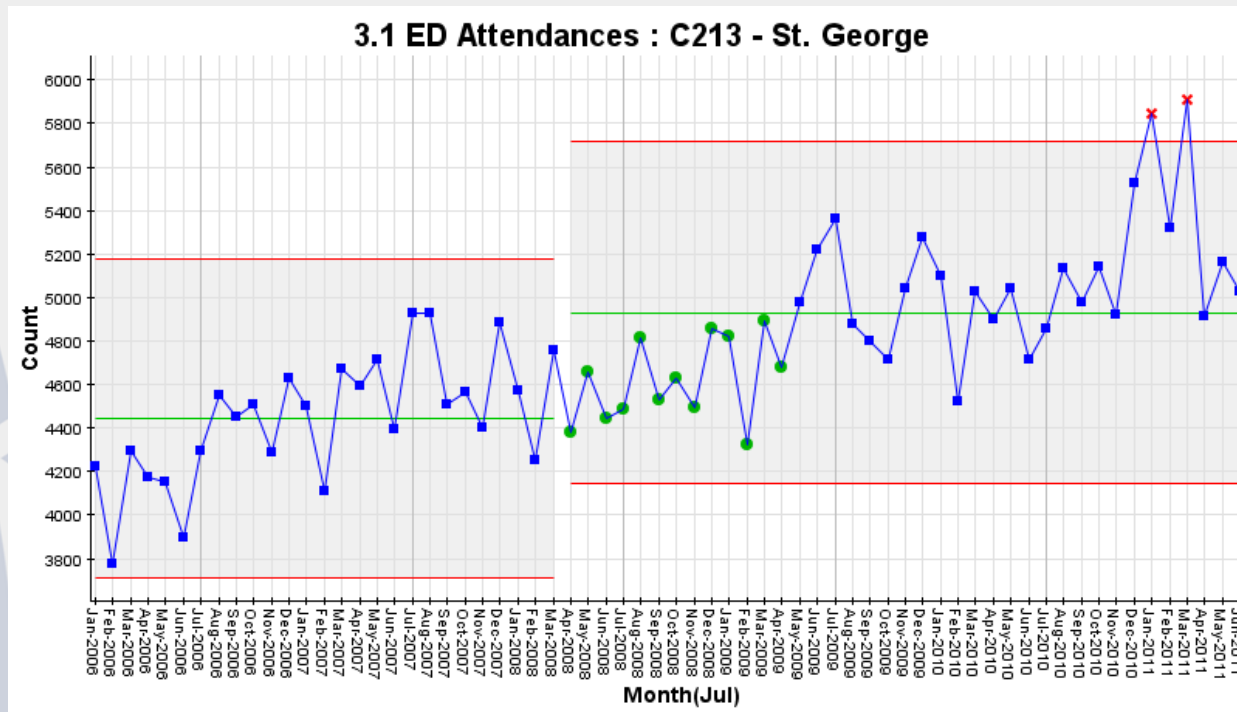
Lightfoot Data

- Expand the range of data incorporated by Lightfoot, such as:
 - GPs
 - Ambulance NSW



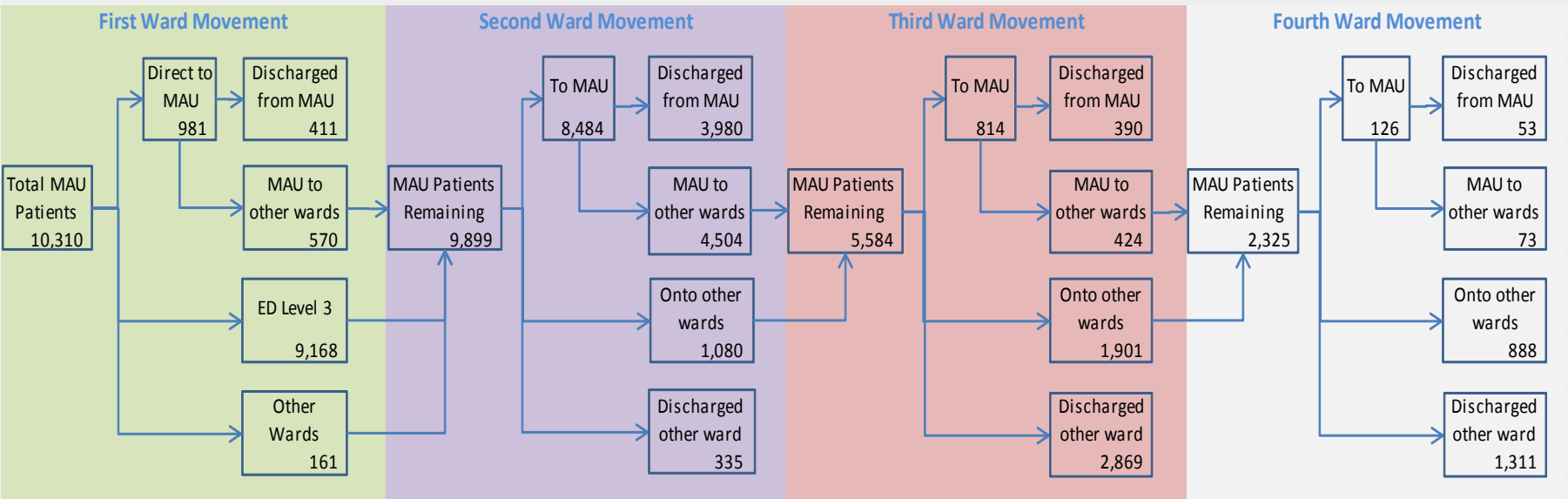
Lightfoot Data

- ED Attendances, St George Hospital



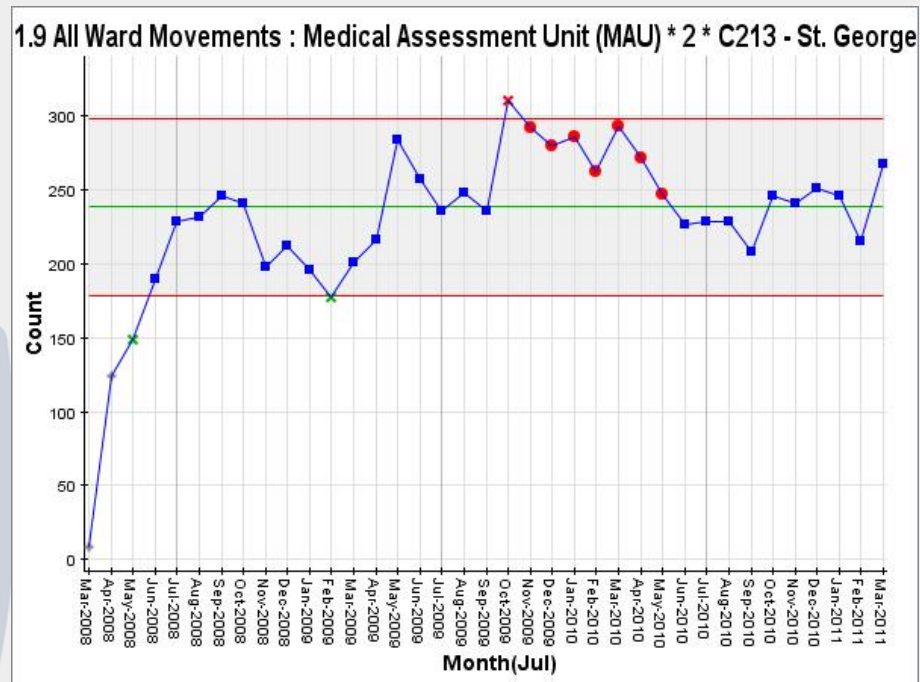
Lightfoot Data

● Movement from MAU to inpatient wards



Lightfoot Data

- Lightfoot data allows us to see the direct outcomes of changes made, through SPC and run charts



Chronic Care Management Models

Current state

- Disease specific models
- Hospital-centric
- Reactive
- Segmented



Future state

- Towards a more generic case management model for chronic disease
- Patient-centred approach leading to self-management
- Enabled by GPs and supported by the MDT in the hospital
- Risk profiling



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A Change in the Model of Care

- **Anticipatory care:** risk-stratified algorithm-based case management of patients through self-management
 - Supported by urgent access to specialty services should a patient's condition change
 - Emphasis on:
 - Anticipating deterioration of the patient
 - Criteria-based interventions
 - Strong partnerships with:
 - GPs
 - Social welfare agencies



Other initiatives

- Improving the physical assessment of Mental Health patients, both inpatient and community
 - Assists in viewing the patient more holistically
 - Helps in managing co-morbidities before deterioration
 - Links patients in with a GP
 - Number of patients who have received a physical examination within the past 12 months increased from 18.1% to 25% in the three months to October 2014



Integrated care initiatives

- Geriatric Flying Squad
 - Introduced to improve the care experience of older adults living in residential aged care facilities and to reduce avoidable hospital presentations and admissions from these facilities
 - Rapid response, 7 day extended hours service providing assessment and management using point of care
 - Outcomes:
 - 90% managed in facility; 5% direct admissions
 - Only 5% required admission via ED



Integrated care initiatives

- Southcare Outreach Service (SOS)
 - Community-based rapid response multidisciplinary team for the ageing population
 - Provides acute and sub-acute interventions for up to six weeks by nursing, physiotherapy and occupational therapy.
 - Aims to:
 - Prevent aged care clients from presenting or re-presenting to ED and to
 - Integrate and coordinate client's care through comprehensive care planning and appropriate clinical interventions in the community.
 - Over 250 clients since February 2015



Quality of Care

● Key Deliverables

- As part of our work on integration, we need to establish collaborative partnerships to build on existing and produce well defined out-of-hospital programs across the District.
- Produce clear flow management programs in our emergency departments that take the opportunity for redesign in our refurbished facilities, producing consistent target achievement.
- Need to significantly better understand who our patients are.



Next steps

- Understanding our business (refining data)
- Anticipatory care management / preventative care
- Unscheduled care (ED) → Scheduled care (GP/MAU/OPD)
 - Strategic use of resources around entry points e.g. outpatient clinics, medical assessment units
- Chronic care management models that are enabled by GPs and supported by multidisciplinary teams
- Collaboration with social welfare agencies



Thank you



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