

Clinical Governance in Practice

The role of data and analytics

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What is Clinical Governance

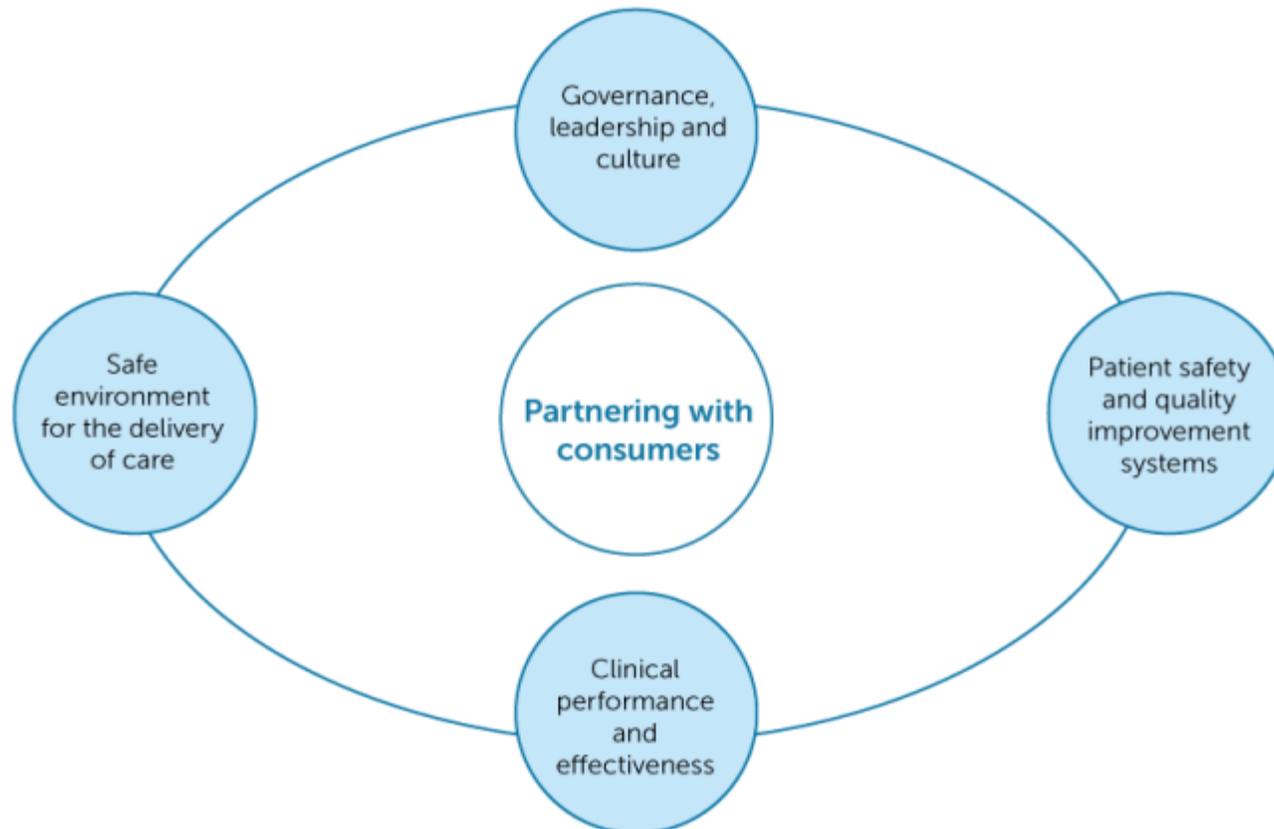
- Having a framework in place throughout the organisation, that supports you to be explicit about:
 - the standard of care delivered,
 - how you protect patients from harm,
 - how you listen to patients, and
 - how you plan and measure improvement.

(Flynn et al 2015)

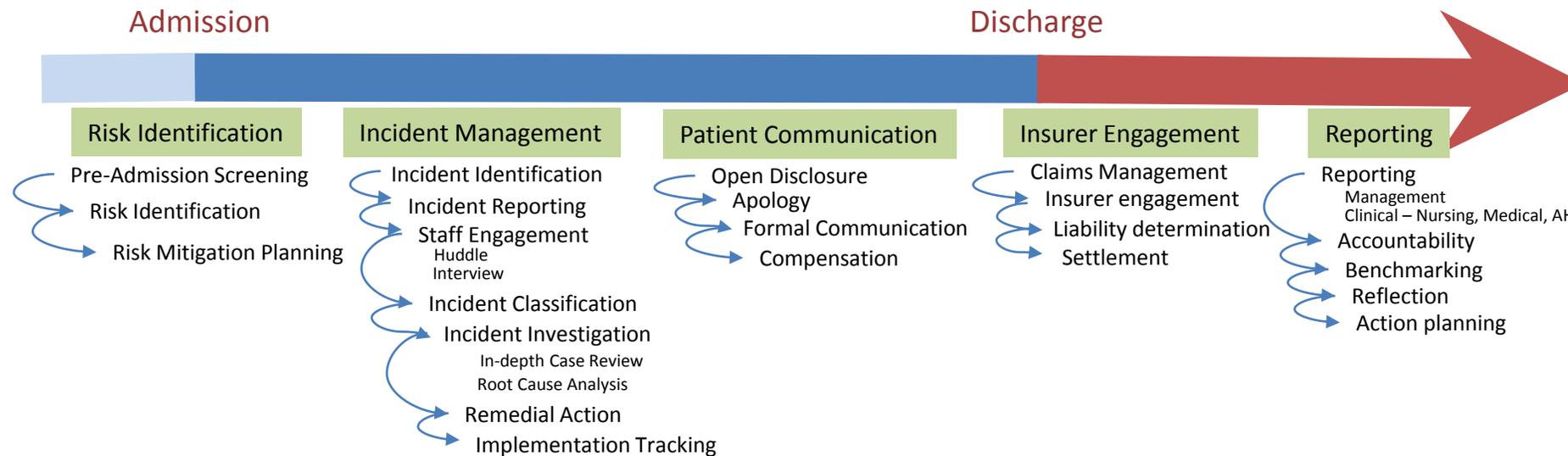


National Model Clinical Governance Framework

ACSQHC - 2017



Clinical Governance Processes



Compliance – licensing, accreditation, audit
Credentialing and Certification
Education and Training
Patient Experience

Culture of Curiosity, Commitment and Courage
Underpinned by accurate, timely and complete data



Outline

- Clinical Governance Implications for Data and Analytics leaders
 - Challenges, Opportunities and Gaps
 - Examples in reporting from a Cabrini perspective
 - Engaging front-line clinicians in reflection and change
 - Leveraging data to change culture



Clinical Governance Processes



Identifying the data is (probably) the easy bit

- Administrative events, incident reports
- Patient Experience, complaints

Defined priority measures

- HACs and Patient Experience

Creating intuitive reporting

Engaging the change agents

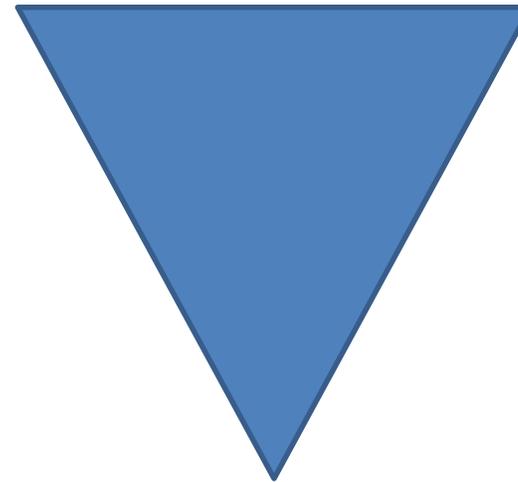
Benchmarking

- VAHI
- Private Hospitals



The Inverted Information Disclosure

- **Management**
 - Board and Executive
 - Trends, targets and projections
 - Accountable, but cannot effect change in healthcare
- **Nursing & Allied Health**
 - Unit Managers and front line workers
 - Patient trends and outcome changes
- **Doctors (VMOs)**
 - Individual patient outcomes
 - “Have I created harm?”



It is the Doctors and Nurses who deliver care
Effecting change requires their engagement



Reporting - Management

- Summary Reporting

Overall	2021	2020	Difference
	Oct-Dec	Oct-Dec	
	Current (n)	Last year (n)	2021-vs-2020
Total Separations	0,780	22,567	-8%
ED attendances	6677	5877	14%
Total Bed Days	4,531	7,024	-4%
Ave Patient Age (Yrs)	60.5	61.2	-1%
SameDay Separations	2,530	13,645	-8%
Ave Sameday Casemix Weight	0.23	0.24	-1%
Overnight Separations**	8,250	8,922	-8%
Overnight Medical Separations**	3,496	3,629	-4%
Overnight Surgical Separations**	4,010	4,665	-14%
Overnight Obstetric Separations**	567	490	16%
Ave Overnight Casemix Weight**	1.49	1.47	1%
Overnight Bed Days **	2,001	13,379	-3%
Ave Overnight LOS (Days)**	5.1	4.9	5%
Day of Surgery Admissions (DOSA)**	3,693	4,359	-15%
Total OR Time (Mins)	16,251	24,655	-13%
Ave Time To Surgery (Hours)	7.8	7	-15%
ICU Patients	407	337	21%
Discharge Before Noon**	1,896	5,625	-13%
Return to OR	265	277	-4%
28Day Readmits**^	525	822	36%
Complications (HACs - Patients)	223	236	-6%
MET Call Within 24 hours of Adm	110	129	-15%
Deaths	153	149	3%
Hand Hygiene	88.8	86.7	2%

Overall	2021	2020	2021	2020	Difference	Benchmark
	Oct-D	Oct-D	Oct-Dec	Oct-Dec		
HAC Details	Total HACs	Total HACs	HAC Rate (per 10,000 seps)	HAC Rate (per 10,000 seps)	2021-vs-20	Rate (per 10,000 seps)
Total	281	298	1.07%	1.05%	3%	1.2%
1.0 - Pressure injury	2	6	0.96	2.66	-64%	1.86
2.0 - Falls resulting in fracture or intracranial injury	4	10	1.92	4.43	-57%	2.17
3.0 - Healthcare-associated infection	101	90	48.60	39.88	22%	48.97
4.0 - Surgical complications requiring unplanned return to theatre	28	35	13.47	15.51	-13%	8.90
6.0 - Respiratory complications	21	11	10.11	4.87	107%	12.63
7.0 - Venous thromboembolism	14	12	6.74	5.32	27%	4.53
8.0 - Renal failure						0.85
9.0 - Gastrointestinal bleeding	7	5	3.37	2.22	52%	6.59
10.0 - Medication complications		4		1.77	-100%	13.41
11.0 - Delirium	34	57	16.36	25.26	-35%	27.23
12.0 - Incontinence	4	2	1.92	0.89	117%	2.16
13.0 - Endocrine complications	17	16	8.18	7.09	15%	3.57
14.0 - Cardiac complications	45	45	21.66	19.94	9%	27.63
15.0 - Third and fourth degree perineal laceration	3	5	1.44	2.22	-35%	4.92
16.0 - Birth Trauma	1		0.48			



Engaging Nurses

- Nurses deliver health care
 - Aware of and concerned about the individual
- But nurses are:
 - Extremely busy
 - Overwhelmed with paperwork and process
 - Focused in the individual (may not see trends)
 - Team oriented with formal leadership structure and accountability
 - Often intimidated by power dynamics
 - Defensive of their practice



Reporting – Nursing Staff

- Daily/Weekly/Monthly automated reporting
 - Current status, exception reports
- Weekly management meeting
 - Summary reports on emerging issues
- Committees
 - Health Outcomes and Quality
 - HAC committee
- Each unit develops individualised action plans

Campus	Final Ward	Discharges	Ave Age	DOSA Pats	DOSA Pats (%)	Ave LOS (Days)	Discharge Before Noon	Discharge Before Noon (%)	Ext LOS	Ext LOS (%)	Pats with an HAC
Total	Total	1,777	60	485	27%	5.7	974	55%	33	1.9%	43
Brighton	Total	160	74	44	28%	7.0	97	61%	2	1.3%	2
Brighton	B1N	49	78	0	0%	9.0	29	59%	2	4.1%	1
Brighton	B1S	21	75	1	5%	7.5	5	24%	0	0.0%	0
Brighton	BGS	61	66	39	64%	2.5	44	72%	0	0.0%	1
Brighton	BHI	4	50	4	100%	8.0	0	0%	0	0.0%	0
Brighton	BRB	25	87	0	0%	13.4	19	76%	0	0.0%	0
Malvern	Total	1,591	59	441	28%	5.5	866	54%	31	1.9%	41
Malvern	JNR	55	82	0	0%	13.6	44	89%	1	1.8%	1
Malvern	1S	91	75	27	30%	4.8	55	60%	2	2.2%	3
Malvern	1W	93	74	28	30%	4.8	48	52%	1	1.1%	3
Malvern	2C	157	64	71	45%	4.4	73	46%	4	2.5%	4
Malvern	2N	22	68	4	18%	7.0	6	27%	1	4.5%	2
Malvern	2S	20	40	10	50%	5.1	10	50%	2	10.0%	0
Malvern	2W	147	34	47	32%	4.3	117	80%	0	0.0%	1
Malvern	3C	85	79	1	1%	7.7	35	41%	6	7.1%	3
Malvern	3N	196	68	109	56%	3.2	96	49%	4	2.0%	1
Malvern	3S	85	77	0	0%	7.3	27	32%	0	0.0%	3
Malvern	3W	60	86	2	3%	13.2	29	48%	5	8.3%	2
Malvern	4N	155	65	80	52%	4.9	84	54%	1	0.6%	3
Malvern	4S	47	75	29	62%	4.4	29	62%	1	2.1%	1
Malvern	5W	80	67	1	1%	7.6	32	40%	3	3.8%	3

Positive Sentiment by Ward and Domain of Care									
CampusWard	No of Surveys	NPS	Nurse Communication	Doctors Communication	Cleanliness	Quietness	Medication	Discharge Planning	Discharge Information
ICU	9	73	83%	94%	95%	85%	74%	82%	70%
Rehabilitation	4	100	93%	100%	100%	78%	93%	100%	88%
Infusion Centre	86	95	75%	92%	100%	75%	75%	75%	75%
Ground South	12	92	83%	92%	100%	83%	75%	100%	77%
Day Oncology	51	88	74%	91%	95%	89%	94%	94%	97%
4S West	25	88	91%	96%	100%	86%	88%	87%	83%
4N North	47	87	96%	99%	96%	89%	79%	87%	85%
4N North	21	86	95%	95%	100%	89%	83%	83%	82%
4N South	19	84	96%	100%	100%	94%	86%	82%	81%
4N West	56	82	92%	97%	91%	96%	69%	80%	80%
4S North	45	80	91%	100%	98%	89%	71%	86%	75%
4S South	24	79	88%	98%	100%	95%	68%	92%	72%
4S Central	19	79	84%	100%	100%	89%	38%	92%	67%
4S Central	33	79	78%	95%	90%	82%	76%	88%	87%
4S South	32	78	84%	98%	89%	81%	73%	81%	81%
4S West	9	78	89%	94%	100%	88%	88%	88%	78%
4S West	23	70	84%	91%	100%	81%	78%	78%	73%
Children's Centre	42	69	79%	94%	96%	100%	82%	82%	72%
Maternity	90	68	89%	97%	96%	83%	76%	80%	64%
4N Central	55	64	82%	95%	89%	77%	63%	79%	75%
4N North	45	62	81%	91%	93%	95%	57%	78%	76%
4N South	19	58	88%	92%	100%	78%	60%	81%	72%
4N North Rehabilitation	24	50	83%	83%	92%	86%	68%	88%	59%
Emergency	123	46	69%	87%	92%	70%	70%	68%	48%
4N Central	3	33	78%	100%	67%	100%	75%	50%	100%
4S West	19	32	84%	92%	84%	94%	73%	65%	75%



Ward HAC Report

Final Ward	1A	1B	2A	2B	2C	3A	3B	3C	3D	4A	4B	ICU
Separations	578	438	579	413	475	322	803	358	212	516	297	45
Ave Age	71	69	62	69	34	77	65	75	86	62	65	61
Ave LOS (Days)	3.5	4.7	3.5	6.3	4.3	7.8	3.5	7.2	9.7	5.6	5.6	4.9
Bed Days	2013	2069	2016	2609	2043	2506	2800	2575	2066	2867	1664	222
Average Charlson Score	3.17	2.88	2.04	3.05	0.00	3.83	2.82	3.72	4.83	2.75	2.63	2.47
HACs	20	43	6	23	7	14	20	12	20	44	18	13
HACs per 1000 bed days	9.9	20.8	3.0	8.8	3.4	5.6	7.1	4.7	9.7	15.3	10.8	58.6

HAC Details	1A	1B	2A	2B	2C	3A	3B	3C	3D	4A	4B	ICU	Total
1.0 - Pressure injury						2							2
2.0 - Falls resulting in fracture or intracranial injury				1			1		1				3
3.0 - Healthcare-associated infection	4	7	4	10	1	7	8	4	8	21	4	5	94
4.0 - Surgical complications requiring unplanned return to theatre	3	8		3			2		1	8	2		28
6.0 - Respiratory complications	2	5		1			2	4	1		3	1	20
7.0 - Venous thromboembolism			1	4		2		1		2	1		12
9.0 - Gastrointestinal bleeding	1			1			1				1		5
11.0 - Delirium	2	6	1	1		2		3	3	4	5	2	32
12.0 - Incontinence				1	3								4
13.0 - Endocrine complications		3		1			1		2	5	1	1	16
14.0 - Cardiac complications	8	14				1	5		4	4	1	4	42
15.0 - Third and fourth degree perineal laceration during delivery					3								3



Engaging Doctors

Assumption

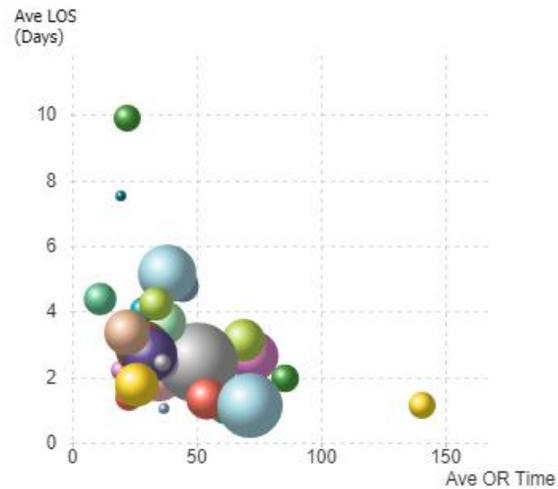
- Given access to their data, specialists will improve their performance
- Specialists focus on reducing “harm” to their patients
- Specialists are intelligent, so understand data
- Specialists are curious
- Specialists seek competitive advantage

Reality

- Specialists tend to be cynical about hospital sourced data
- Harm is a nebulous concept, interpreted differently by management and clinicians
- University does not teach data literacy to doctors
- Specialists lack time/motivation to explore
- Specialists are inherently insecure
- Reflection is hard and potentially painful
- Primacy of reputation



Medical Staff Response



Questions:

- What does the data mean?
- What is the problem?
- Data is too simplistic
- What is best practice?
- What are you comparing?
 - What diagnosis/procedures are included
 - Is it risk adjusted

Graph Type	% Positive or Neutral	Interpretation
Table	65%	100%
Bar Chart	50%	63%
Funnel Plot	65%	50%
Box Plot	25%	75%

Bucalon et al, "You can't improve until you measure": A need finding study on Repurposed Clinical Indicators for Professional Learning *OzCHI '22*



Quarterly Comparative Reports

Surgeon	Cases	Same Day	% Same Day	Hours To Surgery	Theatre Time	Avg LOS	Ext ended LOS	Complications	Return to OR	MET Calls	28 Day Readmit	% Readmit	Deaths	Robot
Other Knee Surgery														
Group Outcomes	101	59	58%	2	46	1.1					1	1%		
ORT32	22	16	73%	1	33	1.1					1	5%		
Knee - arthroplasty														
Group Outcomes	74			3	94	5.2		2	1	6	1	1%		2
ORT32	30			2	86	5.4		1	1	4				1

Complications

Age	Gender	Admission Date	Admission Category	Hours To Surgery	Theatre Time	LOS	Principal Diagnosis	Principal Procedure	Complication
71	F	07/03/2022	Planned	2	88	8	M17 - Arthrosis Of Knee	49518 - KNEE total replacement	Met call leading to ICU admission
67	F	21/03/2022	Planned	3	94	9	M17 - Arthrosis Of Knee	49518 - KNEE total replacement	Return to theatre following surgical complication

Readmissions

Age	Gender	Admission Date	Category	LOS	Separation Type	Principal Diagnosis	Principal Procedure	Readmit Days	Readmit Date	Readmit Category	Readmit LOS	Readmit Diagnosis
60	F	28/02/2022	Planned	2	HOME	M06 - Other Rheumatoid Arthritis	49586 - Synovectomy of knee by arthro	18	20/03/2022	EMG	2	M25.46 - Effusion of joint, lower leg

Purpose - highlight cases for consideration and reflection



Communication

Consumer Feedback and Learnings



JULY 2023

This month we have selected a few of the great compliments that have been received. It is always a pleasure to hear from patients who found their Cabrini experience exceptional. We also outline three cases where things did not go well and which highlight some key messages to assist us improve our patient experience.

😊 Compliment of the month

'I have been in six hospitals across Melbourne as an inpatient over the past seven weeks. Cabrini has distinguished itself as offering superior care for one primary reason – the invaluable care, practical advice and genuine concern, listening support and spiritual nourishment offered by the Pastoral Care Volunteers. The legacy of St Cabrini lives on in these wonderful volunteers.

'In a busy hospital in a busy world it can be almost impossible to find a genuine listener. The pastoral care volunteer was an exceptional listener. She listens with both her eyes and her heart.'

😊 Compliment of the month

'I am an octogenarian lady who has just spent nine days in Cabrini. During the whole of my time, the nursing staff who had a lot to do for me were exceptional. They were diligent, professional and they listened to your concerns. They were amazing in their ability to channel your worries and put you in a sunnier situation. And they needed time to do this. I was feeling very down when one of the nurses bounced into my room and said, "Okay, I am going to shower you, shampoo your hair and blow dry it." I know this doesn't sound like much, but I turned the corner after this. If anyone is truly sick and they find themselves in Cabrini, they will be most fortunate.

'The tea and menu assistants were patient, polite and helpful. Many a time, the menu assistant pointed out items that I could add, which did make a difference, especially in the initial period when I was not hungry.

'Even the cleaners do the job with humor. Having made a nasty mess, I apologized to the gentleman who was left to clean it up. He merely laughed and said it was not a problem.'

😊 Compliment of the month

'Please pass along my sincere thanks to all the Cabrini staff involved in my care. From pre-admission to discharge everyone involved was exemplary.

'The person who called me to go through my pre-admission assessment was kind and professional. On arrival to theatre, patient services checked me in efficiently and got all the appropriate financials sorted out. The pre-op nurse looked after me for a few hours before theatre. She has been at Cabrini for 38 years and was a delight - friendly, relaxed, yet expert in her nursing care.

'After this, the anaesthetic nurse took me to theatre. She could see how much pain I was experiencing and wisely asked if it would be easier for me to walk to theatre (it was) and she gently took me arm in arm towards my surgical adventure. The nurse who transported me to the ward had a lovely demeanour.

'The nurses on 2C were all very attentive, checking on me during their obs rounds, and responding quickly when I needed some extra pain relief. I'd particularly like to highlight the student nurse who was tasked with removing the sticky IV dressing from my hairy arm. She did this slowly, gently, with such great care that not a single hair was waxed off! An impressive effort. It may not seem like much, but little things like this really showcases the care that goes into nursing.

'There were also the food monitors who made sure I was eating - but all were friendly. And the food was great - healthy and tasty.'

😞 Multiple Factors Leading to Early Discharge

A patient left the hospital earlier than anticipated as a consequence of a poor experience. They were cared for in an older 4 bed room.

- When they were on the trolley being wheeled back to the ward the doors closed suddenly, jolting them forwards which increased their already severe pain.
- One person had their TV turned up and then the next person turned theirs up louder to counter the noise. In the end all the TV's were turned up loudly.
- A device was constantly alarming during the night, giving out a high-pitched tone. The staff noted that the device was faulty.
- Someone in an adjacent room was pushing a buzzer on and off for most of the night. At one stage the buzzer was locked on for nearly 40 minutes.
- There was no toilet paper or hand towels in the shared bathroom.

When the patient expressed concerns, the nurses apologised and told them they could put in a complaint if they wanted.

Learning point: unfortunate, individual issues can compound to create major concerns that compromise patient outcomes.

It is critical to evaluate each incident from the patient's perspective and apologise, acknowledge the impact on the patient, explain the cause and implement changes to minimise the concern.

Staff are reminded to remove constantly alarming machines from patient areas and request a service of the device. A 'quiet pack' consisting of an eye mask, a set of ear plugs and head phones is to be trialled in 4 bed rooms.

😞 Medication Instructions

A patient had been on blood thinners prior to surgery. Unfortunately, the patient was not informed in writing about the need to withhold the medication for two weeks post-operatively and so recommenced taking the blood thinners when they arrived home.

Some days later, the patient felt weak and so attended the surgeon's rooms, where they collapsed requiring immediate transfer to the ED and re-admission for six days.

A review of the medical records confirmed that the surgeon had written post-operative instructions to cease the blood thinners for two weeks following the procedure. The surgeon recalled a conversation with the patient in the recovery area where they confirmed that the surgery had gone well and that the patient needed to cease the blood thinners for two weeks. This instructions were also verbally communicated to the patient by the theatre staff but does not appear to have been put in writing at discharge, or communicated to the patient's wife.

Learning point: It is vital that discharge medication instructions be communicated in writing to ensure both the patient and their carers are aware of any required change in medication. The doctor now ensures that all his patients have changes in medication communicated in writing. Theatre staff have also committed to reinforce this instruction on the discharge information sheet provided to patients.

😞 Incorrect Admission Diagnosis

A patient was recently admitted with a diagnosis of Chronic Myeloid Leukaemia (CML). While the diagnosis was apparent in the ED, it was recorded in WebPAS as Chronic Lymphocytic Leukaemia (CLL). While these two conditions may sound the same, they are entirely different diseases with very different implications and treatments. The ED notes clearly documented that the patient had CML rather than CLL.

The WebPAS entry is picked up in the discharge communication to the GP and recorded in the patient summary for subsequent admissions.

Learning point: While these type of errors are rare, it is critically important that the admission diagnosis is correctly entered into WebPAS. Where the diagnosis subsequently changes, the admission diagnosis needs to be updated.



Thank you for your ongoing contribution to ensuring Cabrini provides excellence in all of our services.



Challenges

- Developing a culture of collaboration
 - Engaging VMOs - independent specialists
- Facilitating reflection
- Benchmarking and performance are currently a “management” issue
 - CEO and Executive team review clinical indicators
 - Only clinicians can influence outcomes
 - Multiple, variant agency benchmarks
- Defining acceptable, recognised clinical indicators
- Creating a core indicator set
- Visualisation and presentation of data
- Communication and distribution
- “Spooking the horses” and “witch hunts”
- Transparency and knowledge dissemination
- Coaching versus policing
- Alignment with external agencies
 - National Standards, Medical Education (CPD),



Questions and discussion

