The California State University DOCTOR OF NURSING PRACTICE

Using Bed Ahead to Improve Utilization in a Progressive Care Unit Dino Luzuriaga, DNP, RN Laura Sarff, DNP, RN, MBA, CPHQ, NEA-BC and Rachel McClanahan, DNP, RN, NCSN

Background

- Emergency Department (ED) overcrowding is a serious problem that is exacerbated by ED boarding
- ED boarding occurs when hospitals do not have enough inpatient beds for admitted patients
- ED overcrowding leads to increased patient mortality rates and poor patient care
- Bed assignments are one variable that impacts ED overcrowding
- Bed assignment is a challenging and complex process

Purpose

The purpose of this project was to develop and implement an evidenced-based bed ahead process that ensured patients in the ED needing a PCU level of care were assigned a bed with minimal ED boarding time

Setting

- Large urban public tertiary hospital located in Los Angeles, CA
- Level One Trauma Center serves approximately 170,000 ED patient visits per year – 600-bed hospital
- 30 PCU beds divided into 3 PCU locations
- All adult (age 18-99+) patients with admission orders to PCU from ED

Methods

- Quantitative Pre-Post Design
- Utilized the Iowa Model Framework
- Data Collection: bed request to bed occupy time; PCU LOS; and daily check of PCU bed availability;
- Pre-Implementation data Sept 30, 2021 Sept 25, 2022
- Educational/ Training session Sept 12, 2022
- Bed Ahead Process project introduced Sept 26, 2022

Results





Bed Ahead	Process for Patient Flow Managers		
Process	Staff		
Team:	Patient Flow Managers		
	Team Lead		
True North:	North: To ensure patients are placed appropriately in the right place and right care as soon as		
_	possible.		
Purpose:	oose: Implement a bed-anead process that ensures patients needing PCU-level care are expeditiously		
D 1 11 1	assigned a bed with minimal emergency department boarding time.		
Bed Anead:	The intention of bed-ahead is for inpatient units to be able to anticipation	te the admission of	
117	Description of the second state of the second		
wny:	By establishing an always-available PCU bed, we can:		
	Decrease mortality		
	3 Increase nation safety		
	4 Increase patient satisfaction		۱۸/
	5. Decrease patients LWBS		VV
Focus	By being proactive and engaged in the natient flow process, the PEM	s could play an active	
rocus.	role in utilizing available resources and improving the overall patient flow for the		
	organization.		
NUMBER	WHAT	WHO	
1.	Round in all PCUs (4M, 5F, and 8B) every 12 hours (2X a day) at 10:15 and	Patient Flow	
	22:15	Managers	
2.	Identify downgrades, upgrades, and discharges (DUD) in the PCU unit	PCU Charge RN	I
3.	Round and inform identified DUDs	Patient Flow	•
		Managers + PCU	
		Charge RN	
4.	Follow up with primary teams regarding identified downgrades (Call number	Patient Flow	
5	posted on patient's door)	Managers Dationt Flow	
5.	PEM will contact the critical care medical director (CCMD) during the DAV	Managers	. 51
	and the Teams Attending on service during the NOC	Managers	• D;
6.	CCMD will contact primary team regarding identified downgrade(s) - DAY	CCMD - DAY	
7.	*Attending on service will contact primary teams regarding identified	*Attending on	
	downgrade(s) - NOC. For Internal Medicine Teams, please go to AMION for	service - NOC	l d'
	NIGHT Nocturnist (may vary daily for NOC)		
8.	If there is no response from the primary team, the CCMD/Attending on service	CCMD/*Attending	
	will place an order for downgrade. The primary attending/service chief and	on Service	
	CMO will also be notified.	_	
9.	Record and track PCU bed availability every day at noon on an excel	Team Lead	
*71.	spreadsheet		
*1 his may be	e subject to change		

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Discussion

Staffing shortages resulted in bed closures Demand for beds were consistently high in

MD rounding resulted in positive effect on reducing ED boarding time and LOS Heightened awareness in optimizing

hospital patient flow

 Increased in communication between PFMs and PCU RNs may have helped identify patient who no longer need PCU bed

Limitations

National shortage of nurses led to bed

Decrease generalizability: One organization Data only collected once a day; need to collect more data

Some PFMs continued to rely on intuitive sense of patient flow; reluctance to accept process change

Recommendations

A review of bed availability should be done to determine if times should be adjusted or continued

 Patient Flow Leadership Team should review findings

Further analysis of MD rounding should be examined

Conclusion

• Patient flow is not solely the responsibility of one department but a system problem

Communication and interprofessional

relationships increased between PFMs and PCU RNs

A confounder to this project was staffing shortages

Positive feedback from leadership

References

