

Clinical Safety & Effectiveness Cohort # 27 Team #7

Decreasing the Inpatient Length of Stay of DFO Patients







The Team

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Our AIM Statement

Reduce the in hospital length of stay of diabetic foot ulcer osteomyelitis of patients admitted to hospital medicine department from 12 days to 11 days by March 30, 2022

Background Data

 Important indicators of quality of care Length of stay (LOS) Bed occupancy
 Current average UH LOS : 7.7 days
 National average for academic organization :

5.5 days

Diabetic foot osteomyelitis average LOS : 12 days

Median length of stay of 10 days.

Data Findings: Patterns and Trends









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Location of patients

Disposition Data January 2021 to December 2021



LOS Data of DFO patients January 2021 to December 2021 Patterns and Trends







Osteomyelitis

Delay in Process Flow

- Delay in Radiology imaging needs
- Delay with consultants
- Delay with bone biopsy
- Surgical Delays

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Delay in placement of PICC line
Discharge delays

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Driver Diagram

	GOAL	DRIVERS	INTERVENTIONS	MEASURE	RESPONSIBLE	
To hos stc pa dc k		Delivery of routine care.	Survey developed to identify key perceived issues for providers	Early Identification of necessary care teams / consults Education of staff	, Providers, Nurses	
	To reduce the in hospital length of stay of diabetic		Share weekly targeted emails to working hospital groups			
	foot ulcer osteomyelitis patients from 12	Disposition Barriers	Early engagement of care coordination and nursing teams on potential modifiable barriers		Hospitalist, Infectious Disease Dept,	
	days to 11 days by 3/1/2022		SBAR introduced to Care	Length of stay of patients DC with Hospital at Home	Hospital at Home Program	
			Coordination and Providers to identify applicable candidates for HaH transition	nospilar ar nome	Social Workers, Case Manager Discharge Expeditor	



Interventions

Communication with stake holders HaH, Hospitalist, ID, CM Education with Hospitalist team Survey Sharing information during division meeting Presentation by HaH Weekly email





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Data Collection Plan

Type of Measure	Measure	Data Elements	Data Catagory		Data Source	Data Frequency	Data Steward
Outcome	Hospital Length of Stay	Disposition destination, Length of Stay	Existing	Automated	Medical Records, EPIC	Weekly	Providers, Care Coordination
Process	Hospital at Home Utilization	Number of patients transferred to Hospital at Home program	Existing	Manual	EPIC	Daily	Providers, Care Coordination, Nursing, other interdisciplinar y dept.
Balance	Readmission	Hospital re- admission for same dx	Existing	Automated	Patient Satisfactio n Survey returns, EPIC	Monthly	

Return On Investment

- Financial data for IP/Obs patients with Osteomyelitis diagnosis and diabetes diagnosis admitted to Medicine Services (January 2021 – December 2021)
 - Sample size: 75 Encounters
 Avg LOS: 12 days
 - Avg cost for hospital per encounter: \$19,700.13
 - Avg cost per day for hospital (assuming Avg LOS is 12) is estimated at \$1,641.68
- Financial Summary for the Hospital at Home program from July 2021 – November 2021**
 - Avg cost per encounter: \$14,117.00

^{**} Financial Performance data includes only months July – November of 2021 due to in progress collections for the last 90 days that would reflect an incorrect negative variance

Project Conclusion

 Results show HaH has not been utilized
 one patient utilized Hospital at Home program during interval of project

Interventions ongoing to continue provider education

Future of this project / Sustainability

Measure metrics quarterly

Early Interdisciplinary involvement to identify candidates

Including Podiatry

Include all acute osteomyelitis diagnosis

What we learned

Communication with stakeholders is key

- Sample focus is important guides direction of project
- Data management & Collection
 - Coding issues

Populate teams with right members

Thank you!



Quality & Lifelong Learning