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Project #47: The Impact of Acute Care Physical and Occupational Therapy Delivery Models on Discharge to Skilled Nursing Facility

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#47

The Impact of Acute Care Physical and Occupational Therapy Delivery Models on Discharge to Skilled Nursing Facility

(HFH/Rehab Services)

HFH Acute Care Physical and Occupational Therapy **Delivery of Care Process Improvement**

HENRY FORD HOSPITAL

Adele Myszenski, DPT, Jenny Trimpe, MPT, Therapists in the Department of Rehabilitation Services, Henry Ford Hospital METHODS

AIMS

- Improve PT and OT Evaluation Response Time for general medicine 1. and surgery patients on the GPU in order to improve patient, provider and therapist satisfaction and promote earlier discharge planning.
- Standardize the prescription of PT and OT frequency and 2 prioritization of delivery of care to improve patient equity.
- 3 Promote efficiency and decrease daily workflow disruptions to support therapists in maximizing productivity.
- 4 Improve patient outcomes including functional mobility, ADLs, discharge destination of home versus SNF.

CHANGES IMPLEMENTED

Staffing Model: Weekend to Weekday staffing ratio increased by 41% to 1:2.8 therapists: removed bottlenecks on weekends, staff redistributed across 7 days.

Timing: New consults triaged by date and time of admission and date and time of consult prioritizing those admitted more than 24 hours and those with consults more than 18 hours old.

- Frequency Prescription for ongoing patients: Guidelines for frequency of follow -up visits based on potential discharge to home with increased PT and/or OT intervention
- Daily prioritization and triaging: Standardized definitions assigning a priority level to each patient based on frequency prescription and the date of the last PT or OT visit

Therapy team communication: Creation of "Pick Up Lists" and twice daily huddles for Priority Level 1 and Priority Level 2 lists

	Historical	Pandemic	Novel
Timeframe	Pre-Pandemic Prior to March 2020	March 2020-June/July 2020	PDCA August-December 2020 Full implementation January 4, 2021
Daily Prioritization Process	Pathway patients' Selective surgeries cancelled; New evaluations in order received via EPIC Ongoing patients with a Protew and the picked up same day picked up same day		 Pathway patients⁴ New evaluations by order received, those over 18 hours old prioritized higher; also pts admitted >24 hours are prioritized Ongoing patients assigned a *Ongoing patients assigned a priority Level 1, 2 or 3 based on frequency and number of days since last visit
Screening evaluations	No screening process. Clinican empowered to defer completely independent or dependent patients, however inconsistent	Screening all COVID patients - ENR, telehealth, 1 discipline. Screening all new evals for readiness or appropriateness eliminating completely independent or dependent patients	Screening new evaluations in the pick up list only for readiness; inappropriate consults
Therapist driven Frequency	"Right Patient, Right Provider" Triaging: Usually based on discharge recommendation:	Reduced volume allowed increased frequency; Rehab placements were limited by availability	Frequency Redefined:
Distribution of Staffing on Weekends vs Weekdays	GPU staffing on each weekend day was 18% of the staffing on a weekday for each disciptine. For every 1 therapist working on a weekend day, there are 6.8 therapists working on a weekday.	Due to need for social distancing and reducing staff on site on a daily basis, staffing reallocated evenly 7 days a week. *This was not sustainable as the pandemic ended and stay- at-home orders were lifted and staff were less willing to have a regular weekend day.	Redistributed GPU staff levels to increase equity between weekend days and weekdays; GPU staffing is now 38% of the staffing levels on a weekday on Saturdays and 41% on Sundays.

Admission to GPU – General Medicine/Surgery Required 1 or more PT or OT visits on the following floors: HYT is UNTENNE, MO with a NTENNE, MO with a NETRINA, MO WITH		Cohort 1 - Historical acute rehabilitation delivery of	Cohort 2 – Post- implementation of Novel
		care model January 1, 2019 to August	delivery of care model January 4, 2021 -
		30, 2019 August 30, 2021 Data extracted from EPIC Flowsheets and analyzed by PHS biostats Demographics: Age, Charleson Score, Length of Stay Primary outcome variables a.m. 1: Timing of PT and OT (number of days from Alm 1: Timing of PT and OT (number of days from Alm 2: Average number of visits per patient A.m. 3: Average number of Visits per patient Alm 4: Rate of Discharge Destination (Home or Home within 30 days	

OUTCOMES

8.8% (580) more patients went home rather than Post Acute Facilities

ARHQ estimates \$1,800 savin	2019	2021	Difference
Unique MRNs	5640	6913	1,273
Age, mean	64.2	63.4	(0.8)
Charleson Score, mean	7.62	7.80	0.18
Hospital LOS	8.72	8.83	0.11
Discharge Home	3508 (62.2%)	4904 (70.9%)	8.7%
Readmission within 30 days	1325 (23.5%)	1597 (23.1%)	(0.4%)
Expired during stay	30 (0.5%)	40 (0.6%)	0.1%
Total # PT visits	14,059	18,453	4,394
Total # OT visits	13,079	17,292	4,213
Time admit to 1st PT (Days)	2.60 days	2.40 days	-0.20
Time admit to 1st OT (Days)	2.59 days	2.49 days	-0.10
Average PT visits per pt	2.49 visits	2.67 visits	0.18
Average OT visits per pt	2.32	2.5	0.18
Discharge Home	3508 (62.2%)	4904 (71.0%)	8.8%
Inpatient Rehab Facility	219 (3.9%)	221 (3.2%)	(0.7%)
Skilled Nursing Facility	1602 (28.4%)	1410 (20.4%)	(8.4%)
Hospice	175 (3.1%)	186 (2.7%)	(0.4%)
Nursing Home	27 (0.5%)	40 (0.6%)	0.01%
Other	76 (1.3%)	99 (1.4%)	0.01%

Improved consistency of weekend scheduling for therapists ne of Stat Calls per da 3-6 patients per day were removed from census lists based on triaging Unnecessary evaluations were reduced by approximately 22% Successful roll out to all staff therapists Badge Buddies and Resources created Patients waited less time between therapy sessions Improved Trust between therapists Reduced Discharge Pending calls due to delays in care



		Priority 1***
		Evals assigned (pathway, then oldest first) Discharge Pending calls for patients already assigned Ongoings with next treatment date today or prior;
	Treatment Frequency	QD: Pathway patients / Discharge Pending
x / wk Always individualized based on patient Distinguish Functional Needs & Transient Losses		5-7x: last seen 2 or more days ago 3-5x: last seen 3 or more days ago 2-3x: last seen 5 or more days ago
00/80	Pathway Pt: Home disch is dependent on PT or OT	1-2x: last seen 7 or more days ago
5-7	Home disch is dependent on PT or OT but not LOS Lung or Stroke pathway based on skilled PT or OT needs	* Unavailable non pathway pts become priority 2
3-5	Requires skilled PT and/or OT to discharge home: needs more intensity and rec is Inpatient rehab	Priority 2 (if no Priority 1s need to be seen)
2-3	Home is not dependent on PT or OT) requires subacute rehab, unable to return home with increased frequency	Evals on pick up list prior 9a < 12hrs old Ongoings with next treatment date today or prior:
1-2	Unlikely to make significant improvements or can be mobilitized w/ Nursing: Functional deficits are transient	5-7x: last seen yesterday
follow up pen	No immediate needs or potential for improvement but that may change if LOS increases. Put next tx date a week from now	3-5x: last seen 2 days ago 2-3x: last seen 3 days ago 1-2x: last seen ≥ 5 days ago
Consider 6 clicks score less than 9 or greater than 20 may not need as much skilled therapy. 15-19 have more potential to go home with more therapy if social support available		Priority 3 (if no priority 2s need to be seen) Ongoings Non Pathway: seen yesterday OR refused today or ot has no immediate disch plans
		Evals in pick up list < 6 hours
		Weekend Criteria: (Drag to weekend folder) Pathways and New Evals plus Sat: Priority 1 3-5x/wk home rec not seen since Weds

more days ago more days ago more days ago thway pts become priority 2 ority 1s need to be seen) rior 9a < 12hrs old reatment date today or prior: esterday days ago days ago 5 days ago ity 2s need to be seen) y: seen yesterday OR refused mmediate disch plans 6 hours rag to weekend folder) vals plus at: Priority 1 3-5x/wk home rec not seen since Weds un: Priority 1 3-5x/wk IPR/PAC not seen since Thurs

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Triaging Guideline for DAILY USE

KEYS TO SUCCESS

RESOURCES CREATED

Planning and flexibility is essential to design and implement a new delivery of care model.

Defined goals, objectives and timelines aligned with True North vision.

Standardized protocol to implement new delivery of care model

Commitment, shared vision and communication among acute care rehabilitation team and multidisciplinary staff on GPU units

Health information data to monitor impact over time for cost effectiveness, patient outcomes, length of stay and discharge to home verses SNF Continuous Cycles of Learning (PDCA)

GROWTH / STANDARDIZATION

Provide generalizable and reproducible acute care rehabilitation staffing model that can be replicated in other acute care practice settings Objective guidelines for treatment frequency and prioritization

Utilize health informatics to justify cost effectiveness of acute care rehabilitation

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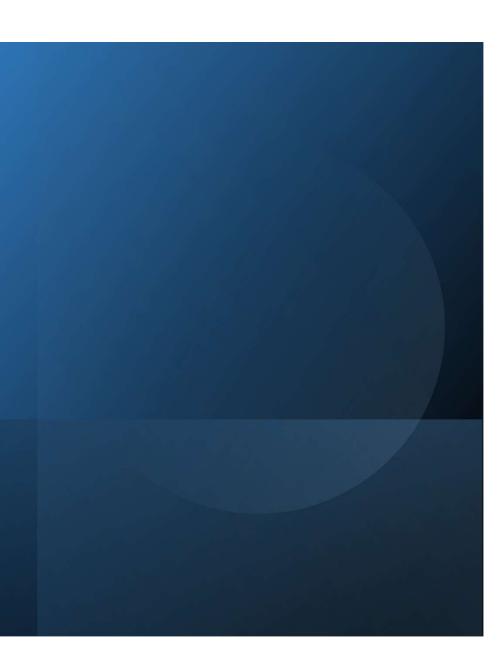
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- Scored high in Safety/Quality, Customer
 Experience, Joy in Work/Employee
 Engagement, and Growth and/or Spread
- Team Members include:
- Adele Myszenski, DPT, Supervisor, Rehab Services
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- Jennifer Trimpe, PT, Rehab Services, HFH
- George Divine, Senior Scientist, Public Health Sciences
- Department of Rehab Services at HFH