INTRODUCTION

The absence of a protocol for mobilizing patients on mechanical ventilation is a local problem at St.Francis-Emory Healthcare. Postponing until after extubation leads to problems of prolonged weakness, re-intubation and significant long-term loss of muscle

PROBLEM

A needs assessment found that there are no protocols in place for mobilizing patients on mechanical ventilation, which is a standard of care. This is a cultural problem in this facility.

AIM and OBJECTIVES

Evaluate the impact of a nurse-driven early mobilization (EM) program on reducing ventilator days and rate of re-intubation.

Specifically adult patients on ventilator.

Measurable reduction of ventilator days

Attainable reduction of HARMS

Realistic goals benefitting outcomes.

Time frame of three-months.

FRAMEWORK

Dorothea Orem's theory of self-care: patient's ability to perform all functions necessary for health, safety, well-being.

METHODS

Setting: Medical ICU

Participants: Adult patients on mechanical

ventilation; ICU staff, RT, PT

Design: Quality Improvement project Data collection: survey, chart review

Plan- staff meetings, goals identifiedDo- pre/post staff surveys, chart reviewsStudy- objective and subjective dataAct- adapt and adopt- start with bed mobility

Implementing a Nurse-Driven Mobilization

Protocol for Patients on Mechanical Ventilation

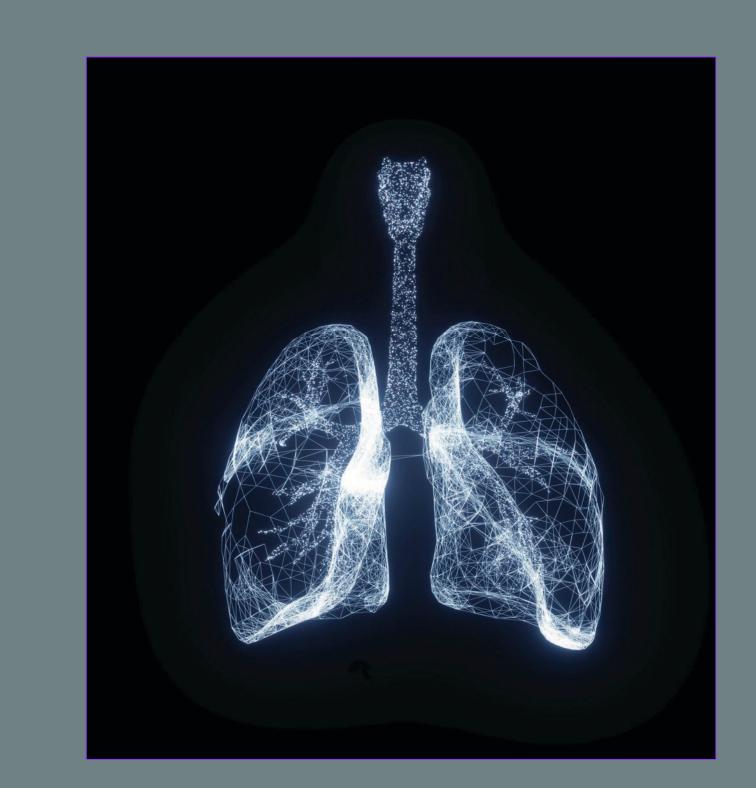
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VANDERBILT

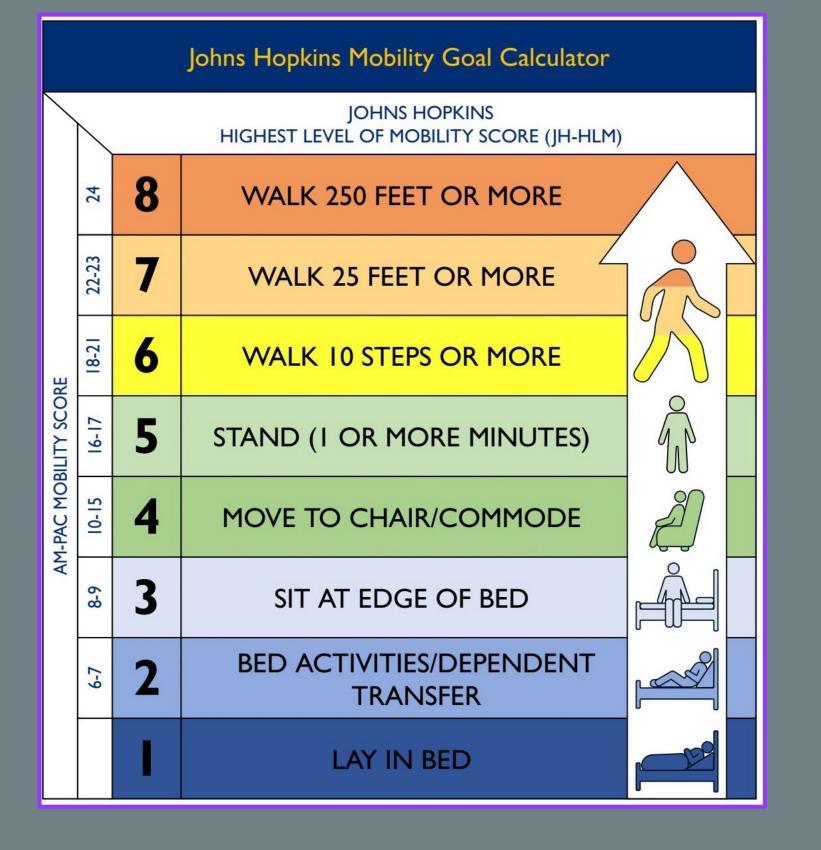


School of Nursing

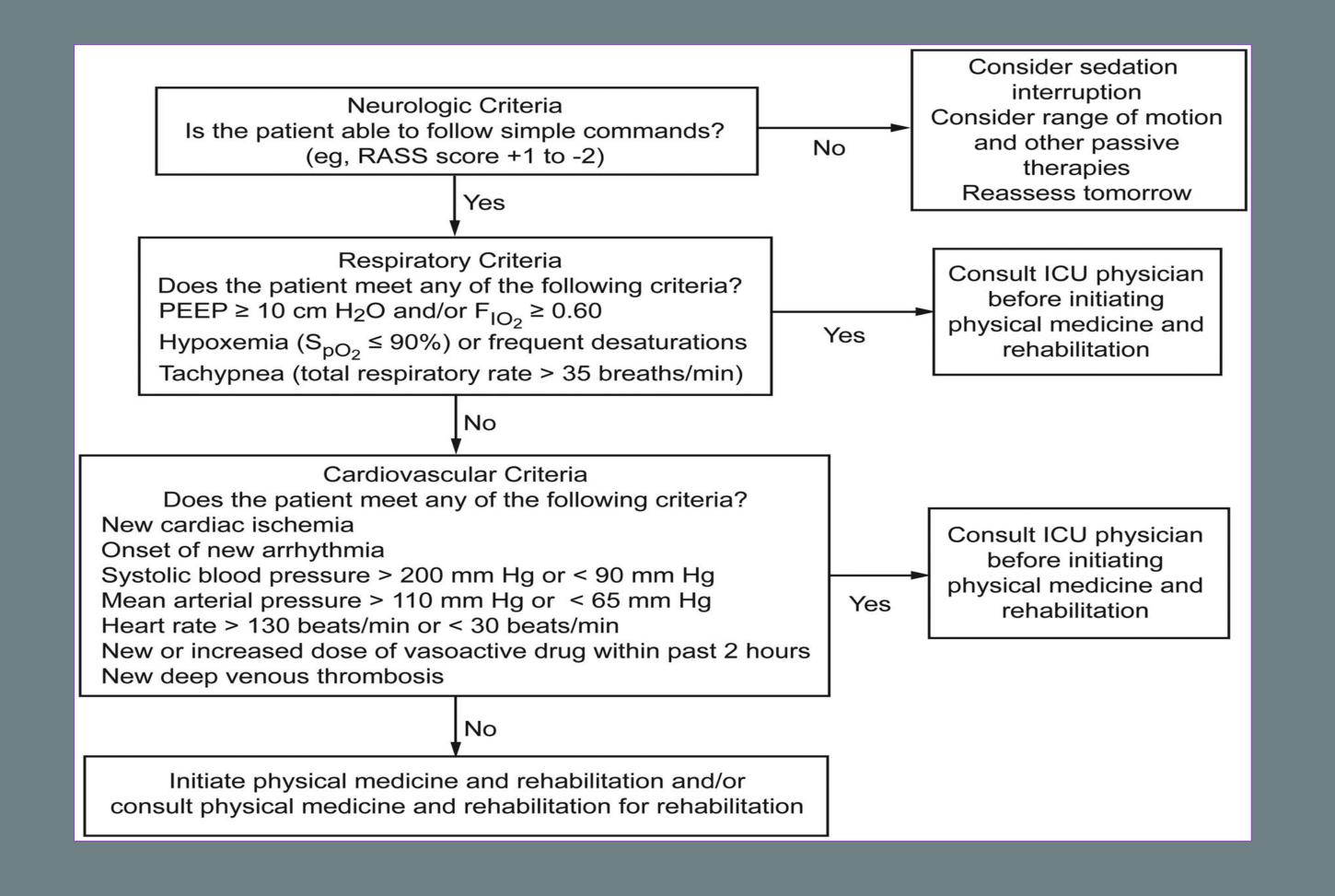
The multidisciplinary team will enable patients to maintain strength through progressive mobilization

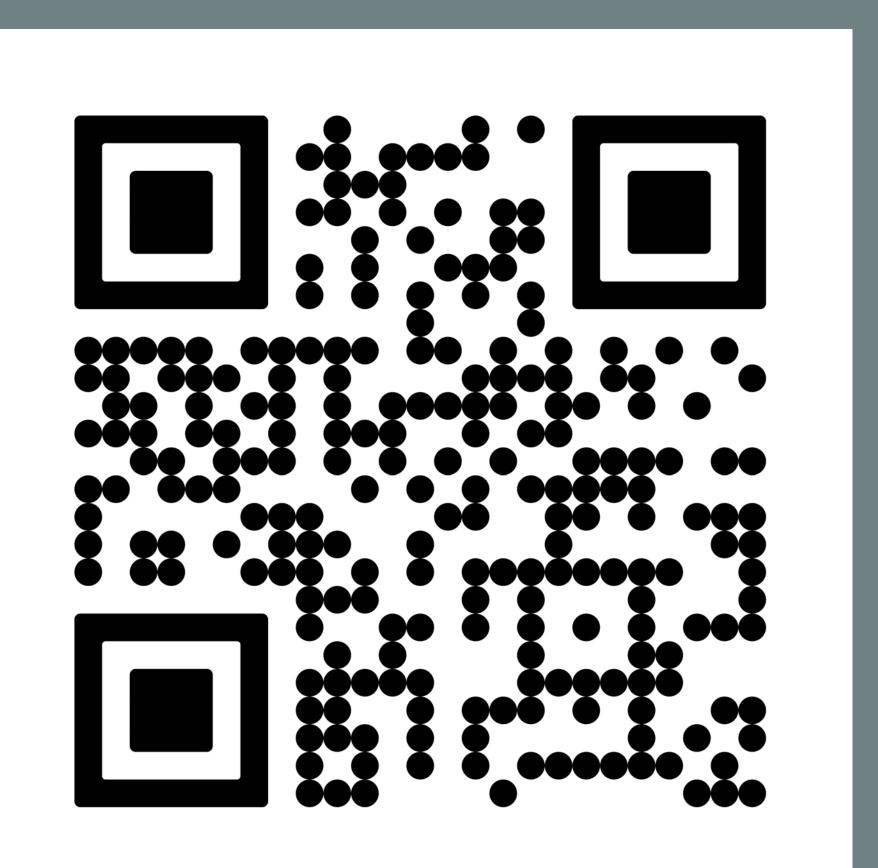












RESULTS

Qualitative data: Staff surveys noting patient improvement associated with mobilization.

Quantitative data:

Preventable HARMS August-December 2021							
	August	September	October	November	December		
Sepsis	2.584	2.449	2.072	1.4	0.258		
CLABSI	0	0	0	0.233	0		
HAUTI	0.235	0.204	0.46	0.933	0		
НАР	1.175	1.02	0.921	0.933	1.549		
Pressure Injury	0.705	1.224	0.921	2.566	0.258		
Sepsis Survival	67.83	69.26	79.01	86.73			
Mortality Index	1.686	1.433	0.9 94	0.793			
Readmission	0.878	0.615	1.135	0.684			

Mobilized patients and outcomes January-March 2022								
Patients Mobilized	January	February	March					
Number of patients mobilized (any level of mobilization)	5	13	18					
Successfully extubated	2	11	14					
Reintubated	2	2	1					
Required Tracheostomy	1	1	2					
Back to baseline chronic vent requirements	0	1	1					
Expired patient	2	0	1					

PATIENT DATA

Patient Sex:

Male=20; Female=16

Patient Age:

Mean 61; Median 63; Mode 63

Days on Ventilator (not chronic vent)

Mean 6; Median 5; Mode(s) 2,3,5

DISCUSSION- IMPLICATIONS FOR PRACTICE

- •EM is associated with reduced duration of vent days, rate of reintubation, hospitalization and healthcare cost.
- -Limited by staffing and COVID-19 pandemic
- -Future goals of advancing to full mobility

CONCLUSION:

- 1-Reduced ventilator & sedation-associated complications and HARMS
- 2-Improved quality of life for patients after ICU liberation
- 3-Improved staff engagement, patient outcomes, and job satisfaction.

References: Johns Hopkins Medicine. (2020); Nydahl, et al. (2017); Ostermann, M., & Sprigings, D. (2017), Society of Critical Care Medicine. (2020); Taito, S., et al. (2016).