

Informed Perceptions of Knowledge, Attitude, and Behavior Concerning Nurse-Led Mobility Among Hospitalized Patients: An Evidence-Based Practice Project

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### INTRODUCTION

Decreased mobility is the primary contributor to severe injuries from falls

 older people are 3x more likely to be readmitted to the hospital within 30 days after discharge.

Declines in a mobility state can affect a patient years after discharge, even leading to death.





Reduced mobilities both contribute directly and indirectly to poor outcomes, such as:

- unintentional injuries from falls
- increased LOS
- unplanned readmissions

These three outcomes have emerged as quality indicators.



### BACKGROUND

#### 2019 Hospital Patient Data

- ❖ Average LOS → 4.35 days.
- Patients aged >64, → 4.56 days.
- 2019 30-day unplanned readmission > 64 → 10.43%.
- → all others, 9.64% -11.86.
- Inpatient falls 53
  - ❖ Unit with most→ PROJECT UNIT





## INQUIRY QUESTION

### The PICOT statement:

 Nursing staff members in an acute care hospital, who participate in an educational intervention that promotes nurse-led mobility strategies will demonstrate improved knowledge, attitude, and behaviors following the intervention.



### INQUIRY QUESTION

# PICOT Concepts

- Population: Volunteer nursing staff members in selected unit of an acute care hospital participate in an EBP project.
- Intervention: A poster-style presentation for an evidence-based educational intervention, that included specific knowledge components tailored to strategically reinforce positive attitudes and behaviors associated with promoting nurse-led mobility.
- **Comparison:** Perceived barriers to the promotion of nurse-led mobility interventions among bedside nurses prior to and following participation in intervention.
- **Outcome:** Improved knowledge, attitude, and behaviors, defined as scores from responses to the Johns Hopkins Patient Mobilization Attitudes and Beliefs Survey (Hopkins Medicine, 2020).
- **Time:** Overall one month from distribution of pre-survey, educational styled poster presentation to completion of post-survey



### **PURPOSE**

Determine and then reinforce appropriate patient mobilization knowledge, attitudes, and beliefs among medical-surgical nurses at the project hospital.



### AIMS

### Specific aims of the project:

- (a) to identify the barriers and facilitators associated with mobilizing patients in a medical-surgical acute care hospital;
- (b) to introduce an intervention that would transform the knowledge, attitudes and beliefs associated with mobilizing patients; and
- (c) to evaluate changes in the knowledge, attitudes and beliefs about mobilizing patients following the intervention



### PROBLEMS

- What are the perceived barriers to nurse-led mobility interventions among bedside nurses following a poster style education project of patient mobilization strategies?
- What are the characteristics of nurses who participated in a poster style education project related to nurse-led mobility?



# CONCEPTUAL FRAMEWORK Kurt Lewin's Change Theory

A widely used theory associated with planned change in clinical settings. Unfreezing, movement, and refreezing used for the association of continuing education strategies on improvements to gain an understanding of how the organization benefits from clinicians' growth after practice behavior change.

Lewin (1951) purports that change results from two field or environmental forces, which require organizations to implement planned change activities. Driving forces help to facilitate and move change in a direction that causes the intended change to occur, while restraining forces attempt to impede change and maintain the status quo. Driving forces are necessary to overcome restraining forces. The three-step change model involves unfreezing the status quo, moving towards a new way and refreezing the change for sustainability



### CONCEPTUAL FRAMEWORK

### Kurt Lewin's Change Theory

- Unfreezing (need for changes)
- Moving (examination of new or alternative innovations)
- Re-freezing (self-efficacy to encourage sustainability)
  - Driving forces (facilitated positive changes)
  - Restraining forces (acknowledgment of [perceived] barriers)
  - Disequilibrium (using gained insight to inform project objectives)
  - Movement (the "how" of the intervention)



# METHODOLOGICAL Planning & Implementation Strategies

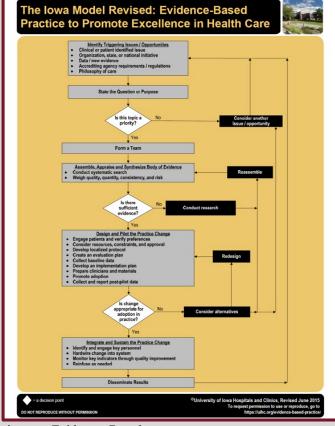
The Iowa Model Revised: Evidence-Based Practice to Promote Excellence in Health Care (2015)

- EBP process guide
- Clinical decision-making tool
- Applicable at the systems and clinician level
- Can be used by point of care nurses interested in solving clinical problems and improving quality through systematic translation of research into evidence and how to go about using sustainable strategies of change in an organization

Change in an organization

Iowa Model Collaborative. (2015). Iowa model of evidence-based practice: Revisions and validation. Worldviews on Evidence -Based Nursing, 14(3), 175-182. doi:10.1111/wvn.12223

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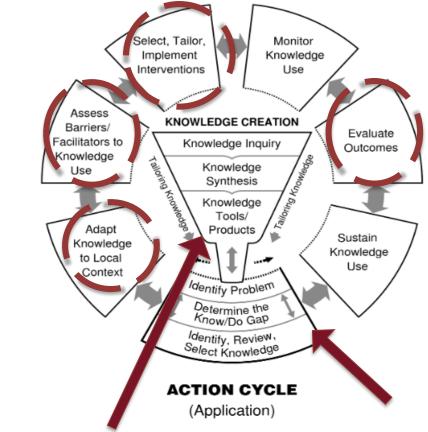






# The Knowledge to Action Framework

- Knowledge transference builds upon continued professional development and education, in order to influence clinical practice changes.
- The framework aids in promoting appropriate stakeholder relationships and facilitating applicable exchanges of knowledge transfer, that are informed and guided by the latest research



The Knowledge to Action Framework (used by Permission from Dr. Ian D. Graham, PhD)



#### "Knowledge Creation" → into 3 stages:

- Knowledge inquiry.
  - First-generation knowledge.
- Knowledge synthesis.
  - Identify, appraise, synthesize.
  - This will be the primary element of knowledge that is the key to analyzing pre-survey responses and translating it into data that will inform the educational programming.
  - This second stage should also incorporate the research question (Kastner & Straus, 2012, p. 1164).
- Knowledge tools/products.
  - Continue to cultivate and improve the evidence-based knowledge that goes into clinical decision-making
    - ➤ Baylor Mobility Toolkit
    - Clinical practice guidelines
    - Guidelines tailored specifically for a telemetry/med-surg unit
    - > Discover robust evidence



### REVIEW OF EVIDENCE

### **Steps of Literature Review**

- 1. planned the evidence search using the Johns Hopkins Nursing Evidence-Based Practice PET Management Guide Dang and Dearholt (2017)
- 2. prior to beginning database and internet searches, predetermined limiters, inclusion/exclusion criteria were considered when searching for evidence-based literature to support answering the overall clinical question
- 3. key terms and phrases



### EVIDENCE SYNTHESIS

- 1. A cross-sectional design tested and refined the use of the self-administered Johns Hopkins Patient Mobilization Attitudes and Beliefs Survey (previously known as the Overall Provider Barrier Scale)
- N= 120 nurses and physical and occupational therapists (82 nurses; 38 rehabilitation therapists)
- knowledge, attitudes, and behaviors for early efforts to improve mobility

Brotman et al., 2015

- 2. Descriptive correlation study in two community-based hospitals
- 6 non-ICU units, that used the JH-PMABS. Surveyed nurses N= 101 who worked at least 20 hours.
- nurse attitudes AND external barriers, rather than nurse knowledge alone, may contribute to insufficient mobility promotion by nurses for hospitalized older adults
- 5-year increase in nursing experience significantly decreased perceptions of overall barriers to promoting mobility (p = 0.02), knowledge barriers (p = 0.009), and attitude barriers (p = 0.04).

Dermody & Kovach, 2017

- Cross-sectional, descriptive, correlational study with convenience sampling (N= 85),
- identified nurses' knowledge, attitudes and external barriers related to mobilization with use of the JH-PMABS (formerly the Overall Provider Barrier Scale)
- also used patient Basic Metabolic Index (BMI)
- severity of illness was obtained though data extraction
- Novice nurses, less priority to promote mobility but seemed to promote more mobility.

Dermody, 2016



### EVIDENCE SYNTHESIS

#### Evidence was divided into the following categories:

- Implementation of Evidence-Based Protocols
- Functional Ability
- Instruments Associated with Patient Physical Function and Mobility
- Effects of Mobility Programs or Applications to Encourage and Supervise Early Mobility
- \*Perceived Barriers or Missed Opportunities to Increase Mobilization

\*Relate directly to the project



### LITERATURE THEMES

#### Literature identified:

- Factors associated with mobility of hospitalized patients
- Perceived barriers associated promoting mobilization of hospitalized patients (specifically the non-critical).
- support for the implementation of the JH-PMABS survey instrument in more than one study
  - one study → used scales to assess and define loss of independence in higher-level activities (e.g., climbing several flights of stairs (Alexander et al., 2012)
  - Silver AMI study → a decrease in ability to perform essential ADLs (bathing, dressing, transferring, and walking around home (\*Brush, 2020 [23]).
    - this <u>"conservative definition"</u> used in a study where participants were identified whose independence was <u>severely limited by functional loss</u>
    - primary outcome was defined as a decline in ability to independently perform ≥1 essential ADLs14 at 6 months posthospital discharge, relative to premorbid ability



## SAMPLE OF EVIDENCE TABLE

Evidence-based Nursing Practice Question: When administering the Johns Hopkins Patient Mobilization Attitudes & Beliefs Survey before and after a one-week daily email and poster presentation when compared to administering the survey one-time, to both day and night nursing staff on a 36-bed, med-surg/telemetry unit, how will the intervention impact the top 5 perceived barriers to natient mobilization?

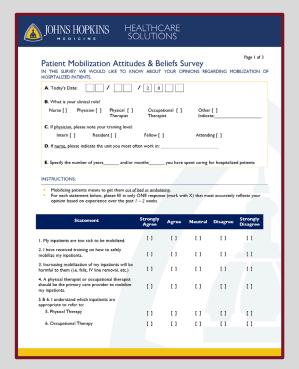
Article # & Category	Author & Date	Study Design & Methods	Sample Size	e Study Findings That Help Answer EBP Question	Study Advances Nursing Science?	Study Limitations	Evidence Level & Quality Rating
11 Perceived Barriers or Missed Opportunities to Increase Mobilization	(Dermody, 2016)	Cross-sectional, descriptive, correlational study with convenience sampling to identify nurses' knowledge, attitudes and external barriers related to mobilization with use of the JH-PMABS (formerly the Overall Provider Barrier Scale) (Brotman et al., 2015). the and also used patient Basic Metabolic Index (BMI) and severity of illness was obtained though data extraction.	N = 85 Nurses caring for 98 inpatients, who were aged 65 and older	Measured nurses' knowledge, attitude and external barriers against a validated 5-point Likert Scale survey. Patient condition, the perception that patients could be harmed during mobilization, perceptions of heavy workload, difficulty prioritizing nursing care, and staffing shortages. Novice nurses, less priority to promote mobility but seemed to promote more mobility.	This project has implications for showing how nursing staff education needs should be an organization priority and ongoing to include competencies since the newer nurses in this study showed more promotion for mobilizing.	Limited generalizability due to sampli approach, sample size, methods and measureme Potential systematic sampling error at sampling bias Causality could not be deduced from descriptive-correlational. No control fother potential variables. Sample was small convenience sample located in carea	ent. nd or a

Article # & Category	Author & Date	Study Design & Methods	Sample Size	Study Findings That Help Answer EBP Question	Study Advances Nursing Science?	Study Limitations	Evidence Leve & Quality Rating
					functional status as important and potentially modifiable risk factor and nursing personnel is on the frontline of health promotion and illness prevention efforts. DNPs are the scientist to translate this research into positive outcomes.		scientific evidence.
Perceived Perceived Barriers or Missed Opportunities to ncrease Mobilization	(Brotman et al., 2015)	A cross-sectional, self-administered survey refined through pilot testing. JH-PMABS (formerly the Overall Provider Barrier Scale) (Brotman et al., 2015).	N= 120 One system; 2 different hospitals; 120 nurses and physical and occupational therapists (rehabilitation therapists, 38; nurses, 82); 6 general medicine units. Between January and March 2013	Highest perceived barrier: "Increasing mobilization of my inpatients will be more work for the nurses."	Yes, because "understanding the barriers to increasing inpatient mobility using a multidisciplinary perspective is important to translate evidence into practice and improve patient outcomes" (p.8).	bias of providers; therapist group was a smaller size than nurses; nurse aids were not considered in this evaluation of barriers. It might be good to include them next time	
mplementation of EBP Protocol Practices	(Carlsen et al., 2019)	A computer-assisted literature search using PubMed, CINAHL, PsycINFD,	81 studies included The database search identified 2220 records. One hundred ninety-	EBP education based on the Sicily Statement's five steps, implied an introduction to all of the Sicily Statement's five steps of teaching	Two key methods for teaching EBP regarding	Databases prior to 2010 were excluded, limiting the search of literature	JH V B

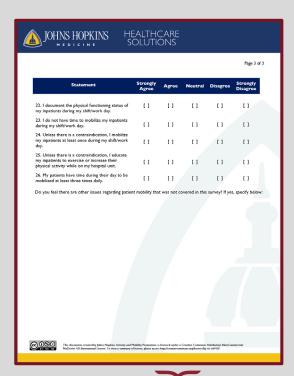
	compared to adr	ninistering the survey one-	-	okins Patient Mobilization Attitudes & Bel y and night nursing staff on a 36-bed, me Study Findings That Help Answer EBP Question	•			
12 Perceived Barriers or Missed Opportunities to Increase Mobilization	(Dermody & Kovach, 2017)	A descriptive correlation study in two community-based hospitals in the Pacific Northwest. Nurses - worked at least 20H in non-ICU settings (neurology, cardiac, pulmonary, nephrology, oncology, and general medicalsurgical) were the target population. based on the research evidence of Brotman et al. (2015). Assess/examine nurse' barriers, to also include attitudes, knowledge, and external barriers to promotion of physical activity in hospitalized older adults through a self-administered survey the JH-PMABS (formerly the Overall		A 5-year increase in nursing experience significantly decreased perceptions of overall barriers to promoting mobility $(p = 0.02)$ , knowledge barriers $(p = 0.009)$ , and attitude barriers $(p = 0.04)$ . This study found differences between nurses with $\leq$ 5 years $(n = 35)$ and $\geq$ 5 years $(n = 50)$ of experience for some scale items, compared to nurses with $\geq$ 5 years' experience, those with less experience had significantly lower perceptions	Yes. Findings in this study suggested nurse attitudes AND external barriers, rather than nurse knowledge alone, may contribute to insufficient mobility promotion by nurses for hospitalized older adults.	Measurement of nurses' perregarding receiving training of specify the type of training (example transfer techniques, gait wall Issues other than experience hospital unit may change per of barriers to promoting mot were not examined or controcausality could not be inferrethis study design. Hawthorne inaccuracies because of time Using a 5-point Likert scale or in responses being toward the (neutral) too often sampling sample size, methods and me surement, may li limit general and or threaten internal valid	did not e.g., king). e and reeptions collety and blled for. ed with e effect or limits. an result e middle approach, ea- alizability	IA

**Provider Barrier Scale)** 

### EBP Measures Survey Instrument







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# Survey Instrument & EBP Measures

**Purpose:** Determine and then reinforce appropriate patient mobilization knowledge, attitudes, and beliefs among medical-surgical nurses at the project hospital.

#### Aims:

- (a) to identify the barriers and facilitators associated with mobilizing patients in a medical-surgical acute care hospital;
- (b) to introduce an intervention that would transform the knowledge, attitudes and beliefs associated with mobilizing patients; and
- (c) to evaluate changes in the knowledge, attitudes and beliefs about mobilizing patients following the intervention

#### **Problems:**

- 1. What are the perceived barriers to nurse-led mobility interventions among bedside nurses following a poster style education project of patient mobilization strategies?
- 2. What are the characteristics of nurses who participated in a poster style education project related to nurse-led mobility?

### **EBP Intervention**



✓ Vascular Conditions

venous insufficiency

hypotension, altered

cardiac reserve.

edema, embolus.

thrombophlebitis)

(loss of calcium from

(venous stasis.

orthostatic

the bones.

constipation)



#### "Make a Moment for Mobility"

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Team

Physician orders

PT consult prn

RT assist prn

#### Risks of Bed Rest

- ✓ Skin Conditions (breakdown, pressure ulcers)
- Musculoskeletal Conditions (contractures, muscle weakness, muscle atrophy, disuse osteoporosis) ✓ Nutritional Deficits
- **Urinary Conditions** (infection, renal calculi, urinary, stasis, incontinence. retention)
- ✓ Lung Conditions (pneumonia. atelectasis, altered respiratory vital capacity)
- · There is an average LOSS of 15% muscle strength with prolonged bed rest.
- · Each day spent on bed rest lowers a patient's muscle strength by 3-11% over the next months and years following discharge.
- · Older adults with poor physical function when discharged, are 3 TIMES more likely to be readmitted within 30 days after discharge.

#### **Goals of Early Mobility**

- > Early mobility
- · Get patient out of bed or ambulating within first 24 hours of admission
- > Nursing Diagnosis: Impaired Physical Mobility
- · is "the limitation in independent, purposeful physical movement of the body or of one or more extremities."





Progressive Mobility Order for mobility (unless contraindicated) Standing Marches Short term goal to increase at least one level daily

#### Interdisciplinary



#### References

Available on request

#### Why Nurse-led Mobility Matters

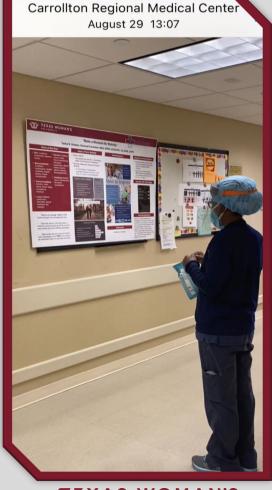
- > Increasing mobility during an acute care stay is essential for promoting health and wellbeing AFTER
- > Patients who mobilize at least 3 TIMES daily during hospital stay. can potentially decrease their LOS by 0.4 to 1.11 days

#### Innovate with Technology



#### Acknowledgements

Thank you CRMC leadership and management. Thank you to all the nurses and techs on this unit for your hard work and involvement with this project. Without your participation, it would not be possible. Thank you, Baylor Scott & White Health System for permission to use their Mobility Toolkit resources. Thank you, to the TWU Library system for support of this research.



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Evaluation of the Project

#### **Project Question:**

When administering the Johns Hopkins Patient Mobilization Attitudes & Beliefs Survey before and after a one-week daily email and poster presentation when compared to administering the survey one-time, to both day and night nursing staff on a 36-bed, Med-Surg/Telemetry unit, how will the intervention impact the top 5 perceived barriers to patient mobilization?

#### Project Objectives to Answer the Research Question:

The project questions originated from developing a PICOT statement as follows:

- What are the perceived barriers of nursing-led mobility promotion, when examined by the three domains of knowledge, attitudes, and behaviors, among nursing staff members in an acute care hospital setting?
- What is the effect on the participant pre-survey responses for perceived barriers after receiving a poster-style education intervention with reinforced evidence-based nurse-led mobilization strategies?
- Among nursing staff members, is there a relationship between educational level, years of nursing experience, age, shift worked, unit location, or type of training that affect their perceived barriers to nurse-led mobilization of inpatients?

#### **Evaluation of the Project**

**Problem 1:** What are the perceived barriers of nursing-led mobility promotion, when examined by the three domains (knowledge, attitudes, and behaviors) among nursing staff members in an acute care hospital setting?

#### **Dependent Variables**

Perceived barriers to mobility promotion (JH-PMABS)

#### Chosen statistics for analysis:

Descriptive → Frequencies

**Rationale:** This test is useful to examine the same variable as it may change at two different points in time, such as the perceived barriers pre-intervention survey and post-intervention survey.



#### **Evaluation of the Project** (continued)

**Problem 2:** Among nursing staff members, is there a relationship between educational level, years of nursing experience, age, shift worked, unit location, or type of training that affect their perceived barriers to nurse-led mobilization of inpatients?

#### **Independent Variables**

Age, Role, Work Shift, Overall Experience (Years), Highest Level of Education, Unit

#### **Dependent Variables**

Knowledge subscale, Belief subscale, Behavior subscale

Chosen statistic: Kruskal-Wallis



#### **Evaluation of the Project** (continued)

**Problem 3:** What is the effect on the participant pre-survey responses for perceived barriers after receiving a poster-style education intervention with reinforced evidence-based nurse-led mobilization strategies?

#### **Independent Variable**

\* Week-long intervention (daily email accompanied by a one-time poster-style presentation)

#### Dependent Variable

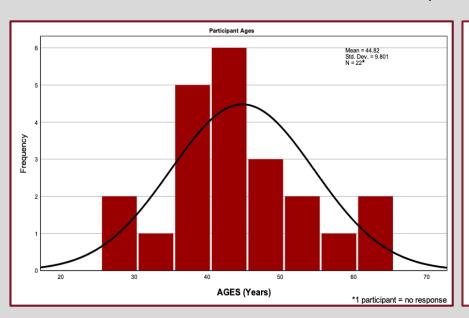
 Perceived Barriers (overall barrier score on pre and post-survey and subscale pre and postsurvey scores of the same participants)

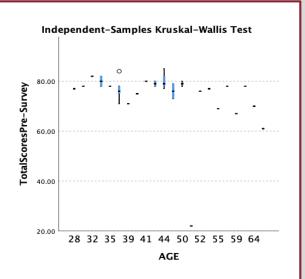
**Chosen statistic:** Wilcoxon signed ranks test to compare the sums of overall barrier scores of the pre and post-survey scores and compare the subscale pre and post-survey scores of the same participants



# Participant Characteristics Descriptive Frequency Statistics

#### Participant Age



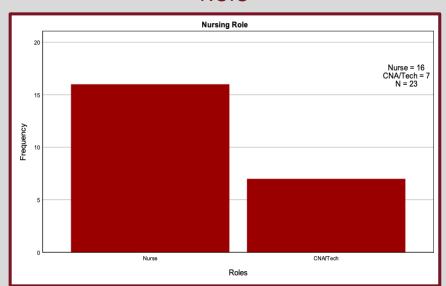




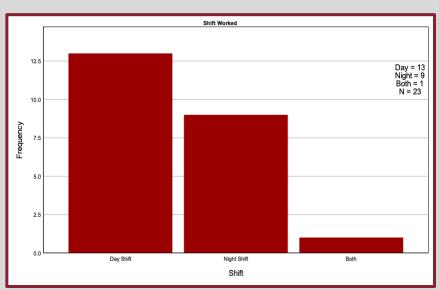
Participant Characteristics

Descriptive Frequency Statistics

#### Role



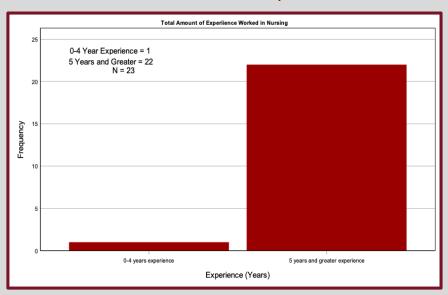
#### Shift



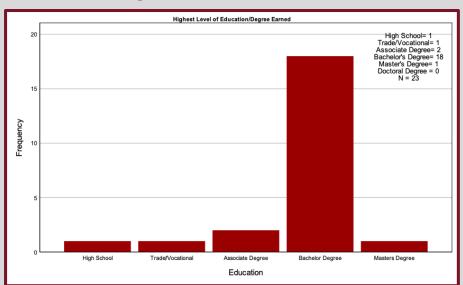


Participant Characteristics
Descriptive Frequency Statistics

#### Total Years of Experience



#### Highest Level of Education

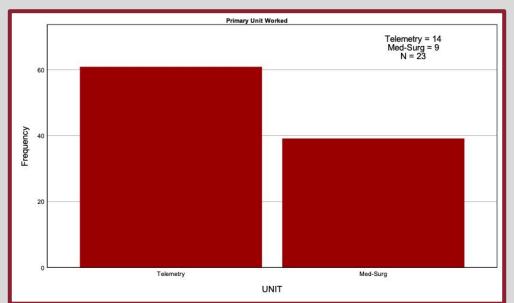




Participant Characteristics

Descriptive Frequency Statistics

#### **Unit Worked**





Top 5 Perceived Barriers to Inpatient Mobility Promotion Descriptive Frequency Statistics

Item 4\*: A physical therapist or occupational therapist should be the primary care provider to mobilize my inpatients (attitude subscale).

Survey Item 4				
	Frequency	Percent		
0 No Response	9	20.5		
1 Strongly Agree	11	25.0		
2 Agree	7	15.9		
3 Neutral	5	11.4		
4 Disagree	11	25.0		
5 Strongly Disagree	1	2.3		
Total	44	100.0		



Top 5 Perceived Barriers to Inpatient Mobility Promotion Descriptive Frequency Statistics

Item 15\*: Increasing the frequency of mobilizing my inpatients increases my risk for injury (behavior subscale).

Survey Item 15					
	Frequency	Percent			
0 No Response	10	22.7			
1 Strongly Agree	4	9.1			
2 Agree	20	45.5			
3 Neutral	7	15.9			
4 Disagree	3	6.8			
Total	44	100.0			

# Item 17\*: My inpatients are resistant to being mobilized

(behavior subscale).

Survey Item 17					
	Frequency	Percent			
0 No Response	10	22.7			
1 Strongly Agree	13	29.5			
2 Agree	18	40.9			
3 Neutral	3	6.8			
Total	44	100.0			



Top 5 Perceived Barriers to Inpatient Mobility Promotion

#### Descriptive Frequency Statistics

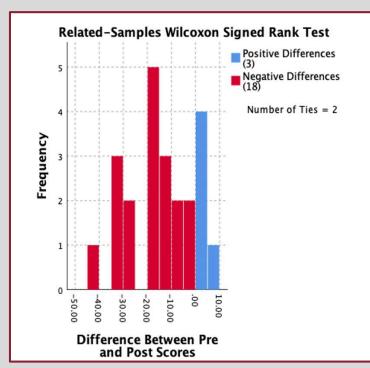
Item 19\*: I am not sure when it is safe to mobilize my inpatients

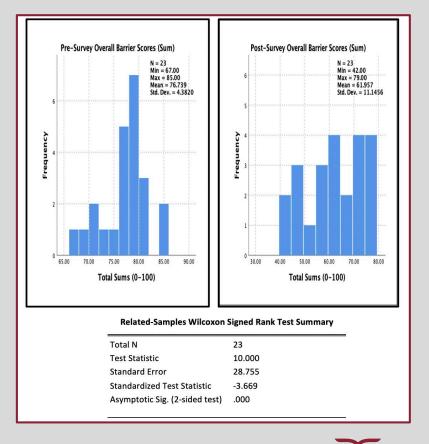
Survey Item 19					
		Valid			
	Frequency	Percent			
0 No Response	10	22.7			
1 Strongly Agree	13	29.5			
2 Agree	18	40.9			
3 Neutral	3	6.8			
Total	44	100.0			

# Item 23\*: I do not have time to mobilize my inpatients during my shift/workday.

Survey Item 23					
	Frequency	Valid Percent			
0 No Response	10	22.7			
1 Strongly Agree	9	20.5			
<b>2 Agree</b> 3 Neutral 4 Disagree	<b>17</b> 7 1	<b>38.6</b> 15.9 2.3			
Total	44	100.0			







For Overall Barrier Scale Score 0-100 → The higher the score, the more the nursing staff perceived a barrier to promoting inpatient mobility \_\_\_

UNIVERSITY

# **FINDINGS**

Ranks					
	PARTICIPANT		Mear		
	ROLE	Ν	Rank		
PreKnowledge	1 Nurse	16	12.75		
Role	2CNA/Tech	7	10.29		
	Total	23			
PreAttitude	1 Nurse	16	10.44		
Role	2CNA/Tech	7	15.57		
	Total	23			
PreBehavior	1 Nurse	16	13.69		
Role	2CNA/Tech	7	8.14		
	Total	23			
PostKnowlede	1 Nurse	16	9.56		
Role	2CNA/Tech	7	17.57		
	Total	23			
PostAttitude	1 Nurse	16	10.00		
Role	2CNA/Tech	7	16.57		
	Total	23			
Post Behavior	1 Nurse	16	9.31		
Subscale &	2 CNA/Tech	7	18.14		
Role	Total	23			

### Non-Parametric Testing: Kruskal-Wallis Ranks Test

Post-Survey Subscale Scores Test Statistics								
	Pre-	Pre-	Pre-	Post-	Post-	Post-		
	Know	Att	Behav	Know	Att	Behav		
Kruskal-Wallis H	.668	2.82	3.339	7.214	4.636	8.333		
		9						
df	1	1	1	1	1	1		
Asymp. Sig.	.414	.093	.068	.007	<del>.</del> .031	<u> </u>		
, , ,								
a. Kruskal Wallis Test								
b. Grouping Variable: PARTICIPANT ROLE								

- statistically significant with a p < .05</p>
- statistically significant for greatest mean ranks difference



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## **FINDINGS**

### Non-Parametric Statistics: Kruskal-Wallis H Test

#### Continued Testing Revealed:

- There was also a significant effect on attitude subscale scores based on the unit staff participants worked,
   with a p-value of p < .05.</li>
- Significant effect on knowledge subscale scores based on the shift staff participants worked, with a p-value of p < .05.</li>
- No statistically significant relationship was found in comparing age and subscale scores.
- No statistically significant relationship was found in comparing education and subscale scores.



## DISCUSSION

- The survey as a knowledge building tool
- interdisciplinary empowerment
- bridge the clinical practice gap that exists where EBP falls short
- ❖ Veteran staff →useful for informing of ongoing competencies and inservice needs.
- This project shed light on how versatile the survey can be and how useful the Mobility Toolkit (BSWH, 2017) components were in filling in knowledge gaps.



## LIMITATIONS

- Small sample size
- Causality is difficult to infer with type of project
- ❖ COVID-19 pandemic
  - low participation rates
  - paperwork delays
  - project on COVID unit
  - staff burn-out
  - turnover
  - !leadership changes
- ❖ project limited to one unit→ limits ability to generalize
- hospital ownership and EHR transitioned during project



### Implications for DNP Essentials

Project based on various theoretical frameworks that sought to answer a research question, and in the process, affect change through a translational scientific approach. The Doctor of Nursing Practice Essentials were integrated and applied throughout the preparation for planning and implementing the project.



# Ethical IMPLICATIONS

- EBP Determination Process
- Fidelity
- Confidentiality



### Knowledge, Attitude, and Behavior Implications for Nursing Practice

- Registered nurses did not perceive knowledge as a contributing barrier to promoting. mobility for inpatients
  - They perceived external barriers and attitudes were the perceived barriers.
  - There was a lack of mobility culture in this unit.
  - It is recommended that a change agent is necessary to engage in ongoing mobility in-service activities that engage the nurses in a manner they don't perceive as another competing task.
    - An important aspect of the KTA framework is the idea that knowledge transference considers and builds upon continued professional development and continuing education, in order to influence clinical practice changes. The framework also aids in promoting appropriate stakeholder relationships and facilitating applicable exchanges of knowledge transfer, that are only informed and guided by the latest research (Caswell et al., 2006)
  - Transforming the clinical environment to reflect one of an evidence-based nature. A culture shift follows the change agent where nursing leadership combines with interdisciplinary approaches in order to sustain that culture.

### Financial Implications for Nursing Practice

A large budget was not necessary for this project, but the intervention successfully produced a positive outcome with potential for a large financial gain from unit to hospital level.

❖ Balance with need and planning of needs for future PPE

### Organizational Implications for Nursing Practice

- ❖ COVID-19 Pandemic showed how complex the care sphere can be.
- ❖ Importance of mobility; seen more when patients were not only admitted Not only COVID-19 positive, but being diagnosed with COVID pneumonia, several of whom had recently been discharged. Protocols for mobility must be made a priority even in the time of a Pandemic.
- Plan for mobility protocols for <u>isolated patients</u> in general



### **Implications for Improving Patient Mobilities**

Project was not directly involved with patients, but indirect implications for the improvement of patient outcomes. Knowing perceptions of barriers to nurse-led mobility promotion provided insight into possible staff knowledge deficits, informing educational programming for the intervention. This gained knowledge promoted empowerment to indirectly improve patient health outcomes as there is an increased level of knowledge and awareness. For patients, this means avoiding functional decline that add up to a positive change in the following:

LOS falls injuries from falls

decreased need for transfer to rehabilitation facilities at discharge

decreased unplanned readmissions



## OVERALL PROJECT SUMMARY

Completed an evidence-based nursing practice project focused on positively impacting nurses' perceptions of the promotion of nurse-led mobility from the domains of knowledge, attitude, and behaviors.



## **NEXT STEPS**

- Project → Change Agent
- CRMC→ Sustainability
  - new-hire training
  - competencies (is re-training needed)
  - indicator for new staff (is training needed?)
  - system
- Stakeholder Involvement for future sustainability
- Clinical Setting
   Recommendations
  - JH-Patient Mobilization
     Attitudes & Beliefs Survey as

- an Indicator for Baseline Training Needs
- Nursing-led Mobility
   Competencies
- New-Hire Orientation on Mobility
- Next Steps and Sustainability Outlook
  - Can this EBP project work in other unit settings?



# PLANS FOR DISSEMINATION

- Hospital Poster Presentation
   a. stakeholders
  - i. education department
  - ii. participants
- Nursing Organizations
   a. American Colleges of Nursing (AACN) and the Graduate Nursing Student Academy (GNSA)

- i. Presented a Virtual Poster Presentation to the GNSA Leadership and other graduate nursing students in September 2020.
- Interdisciplinary Conferences
   a. National Mobility Conferences
   i. (Abstract submitted) 2020
   Johns Hopkins Mobility
   Conference
   (April 2020-canceled due to COVID-19).

- 4. Evidence-Based Practice Conferences
  - i. Ongoing project presented to University of Iowa Advanced Practice Institute: Promoting Adoption of Evidence-Based Practice in February 2020.
  - ii. Submitted completed project Evidence-Based Practice Blinded Abstract to the University of Iowa Health Care and Nursing Research and EBP 28<sup>th</sup> (2021) National Evidence-Based Practice Conference, Team Science: Achieving More Together for a virtual pre-recorded oral presentation or electronic poster display.



- 5. Discipline-specific Conferences
  - a. National Clinical Nurse Specialist (NACNS)
    - Poster presentation of ongoing progress at the 2020 Annual Conference, 25th Anniversary "Transforming Health Care: Our Past, Our Present & Our Future! While it was ongoing (March 2020).
    - ii. Submitted abstract of completed project for the NACNS Annual 2021 Conference: Resurgence of the CNS Virtual Poster Presentation "CNS Improving Outcomes" in topics of Clinical Practice Application, Health Care System, Health Promotion, Education, Gaps in Knowledge, Skills, and Practice scheduled March 2021.