

Patient with Total Hip Replacement: Bedside Simulation and Implications for Collaborative Practice and Improved Patient Safety

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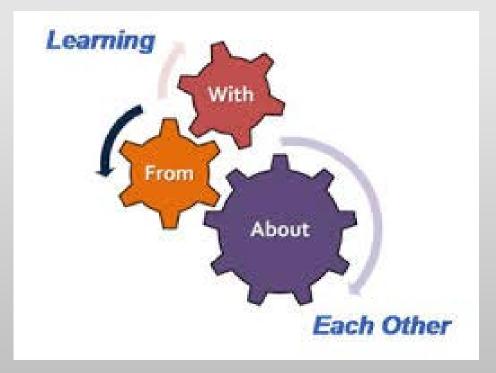
MISERICORDIA UNIVERSITY

Dallas, Pennsylvania

Founded by the Sisters of Mercy

Objective:

 To share an experience that provides students with an authentic opportunity to perform, collaborate and learn roles and responsibilities during a simulated bedside experience with medical imaging (MI), nursing (NSG) and physical therapy (PT) students.

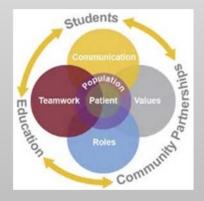


Introduction

 Misericordia University is a four-year, Catholic, co-educational liberal arts university located in Dallas, Pennsylvania.

Misericordia's Interprofessional Education Mission:

To engage students and faculty in interprofessional education and experiences to support the collaborative team approach to patient-centered care.



Our Simulation Activity

 Collaborative student teams attended to a simulated patient at the bedside in a nursing lab. Students experienced a realistic post-surgical inpatient simulation that allowed recognition of each others roles and responsibilities and required communication and teamwork to ensure patient safety.



What Makes This Unique?

 Many IPE programs provide collaborative experiences between nursing and PT students, but opportunity for MI is not always present. This experience offers a unique model to allow integration of imaging as an important component of the team.

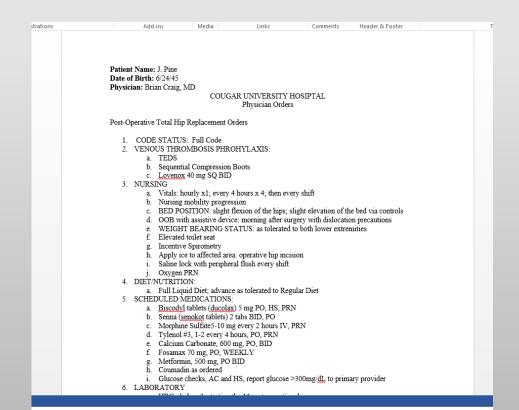


Preparation and Planning

- The goal was to create an experience that allowed for entry level students to have interprofessional exposure to augment their clinical education with an emphasis on communication and teamwork
- Planning began several weeks prior to the activity with a focus on developing the scenario, creating common objectives and simulating a realistic experience within an acute care setting

Preparation and Planning

 A "chart" was created to match the scenario information including physician orders, a medication record and a report in an SBAR format.



		Med	Medications for J Pine			
	Med	dication A	dministrat	tion Rec	ord	
Medications		Date Tuesday			ora	
DRUG	Metformin	TIME	INITIAL	TIME	INI	
AMOUNT	500 mg	0800				
ROUTE	PO	1700				
FREQ	BID					
DRUG	Morphine	TIME	INITIAL	TIME	IN	
AMOUNT	5-10 mg					
ROUTE	IV					
FREQ	Every 4 hours PRN					
DRUG	Tylenol #3	TIME	INITIAL	TIME	IN	
AMOUNT	1					
ROUTE	PO				1	
FREQ	Q 4 hours PRN					
DRUG	Fosamax	TIME	INITIAL	TIME	IN	
AMOUNT	70 mg	The state of the state of				
ROUTE	PO				100	
FREQ	WEEKLY					
DRUG	Calcium	TIME	INITIAL	TIME	IN	
AMOUNT	600 mg	0800				
ROUTE	PO	2000				
FREQ	BID		The state of the s			
DRUG	Lovenox	TIME	INITIAL	TIME	11	



Preparation and Planning

- Interprofessional groups were created related to the number of students in each discipline
- Senior level students were recruited to be standardized patients; faculty were recruited to be debriefers and facilitators
- A "dry run" was organized with senior level students as the participants to estimate our run times and to assess for clarity of instructions and organization.
- The activity schedule was created: 5 simultaneous simulations at 45 minute intervals, repeated 5 times



Simulation Day

- Standardized patients reported early and were provided with demographic information, outline script, name band and moulage
- Facilitators reported early for a pre-activity briefing, given a list of expectations and facilitator questions
 - Roles/responsibilities, communication, teams/teamwork vs clinical skills
- An organizer helped manage the flow and prepared standardized patients



Brief



Simulation



Debrief

INTRODUCTION: You are working in an acute care setting, Cougar University Hospital. You receive orders for J. Pine who was admitted to the hospital and had a surgery yesterday.

GOAL: The goal of this experience is to work together as a patient centered team. The focus is not as much on your clinical skill performance as it is on your ability to communicate, work as a team and recognize the similarities and differences within each discipline!

PREPARATION:

- Orders were reviewed by each discipline
- Plan of care discussed with discipline specific groups to simulate orders received in each separate department

Nursing orders: post-operative assessment

PT orders: OOB, standard THR precautions

MI orders: AP left hip, DX: s/p THR, check alignment

Brief



Simulation



Debrief

- Facilitator transitions case to nursing students via an shift change communication in SBAR format
- Nursing students begin assessment
- PT student enters scenario to initiate pre-transfer assessment: goal of getting patient out of bed
- MI student enter scenario with goal of obtaining AP view of left hip
- Timing allowed for overlap of clinician roles / Interprofessional communication

Brief



Simulation



Debrief

Roles and Responsibilities

- Did you understand the roles of the different professions?
- Did you notice any similarities and differences with your roles?

Communication

- During the scenario, when was communication most important?
- Were you satisfied with your ability to communicate with each other?

Teams and Teamwork

- Do you feel that you worked together as a team?
- What would you do differently next time?

How do did this experience contribute to your understanding of improved patient-centered care?

Assessment

 Surveys regarding the simulation activity were distributed to students, simulated patients and faculty facilitators

 Qualitative assessment performed from the perspective of the faculty and students

Did we meet our objectives?



Organizers Perspective

- Very positive method to engage the 3 different health care students in a collaborative learning experience
- Successful in encouraging cooperative clinical partnerships
- Information was shared regarding patient safety (Meds, THR precautions, assist needs for positioning for imaging and OOB)
- Significant planning and preparation needed for activity (time, scheduling, space, materials, faculty and students)

Faculty Participant Perspective

- Impressed with activity and positive learning collaboration
- Exceeded expectations of realistic simulation of acute care setting and patient
- Included areas difficult/unable to portray in general class activity
 - Hip incision
 - Communication hand-off
 - Spontaneity of interactions: between student and patient and between students of different professions
 - Inclusion of important member of healthcare team (MI) that students do not often see in academia but interact often in acute care settings

Student Perspective

1. Did the experience make you more aware of communication among health care disciplines?

94.8% agree or strongly agree

2. Did the experience make you more aware of the importance of teamwork within health care disciplines?

93.1% agree or strongly agree



Student Perspective

3. Did the experience make you more aware of the roles and responsibilities of other disciplines?

92.3% agree or strongly agree

4. Do you feel this activity was beneficial to future practice?

96.6% Yes



Relevance to collaborative practice and improved patient safety

- Not graded, so less threatening environment that facilitated communication and teamwork
- Significant recognition of role similarities and differences
- Awareness that not all disciplines have the same information prior to seeing a patient
- Recognition that information sharing ensures improved safety

Changes for Future?

- Mandatory participation for all disciplines
- Evaluation tool with performance checklist
- Filming to augment reflection process





QUESTIONS??



