Date: May 7, 2008

File Name: Group 4

Discipline: Nursing, medicine, radiology, EMT, possible consultant (specialist ie neurosurgeon via conference call), possible social work/pastoral care Student Level: Advanced students

Expected Simulation Run Time: 15 - 20 min Guided Reflection Time: 20 min. Location: at desk/ nursing station in a small town, rural ER: discussion occurring regarding steps towards managing client with upcoming examinations, treatments, possible transfer If using conference call item, would occur in room with that capability Location for Reflection: conference room

Admission Date: Today's Date:	Psychomotor Skills Required Prior to			
	Simulation			
Brief Description of Client				
Name: Larry Gender: M Age: 23 Race:				
Caucasian	Students should review and have awareness			
Weight: 65 kg Height: 175 cm	of proper neck and spine precautions during			
Religion: not known	movement/ transfer and care of suspected			
Major Support: traveling alone, from out of	spinal cord injury client			
province	spinal cord injury cheric			
Phone:				
Allergies: none known				
Immunizations: states immunizations up to date prior to entering university last year	Cognitive Activities Required prior to			
Attending Physician/Team: ER MD, EMT who	Simulation [i.e. independent reading (R), video			
transferred client form scene, ER nurse, radiology	review (V), computer simulations (CS), lecture (L)]			
Past Medical History: states no significant past				
medical history, always healthy, active in sports	Re spinal cord injury: presenting signs and			
History of Present illness: Suspected spinal cord	symptoms			
injury. Motor vehicle accident – no other visible	Initial and ongoing assessments of physical,			
injuries, was driver, wearing seat belt	psychosocial, radiology parameters			
Social History: university student in sports education	Initial and ongoing treatments, timely			
program	interventions; medical, nursing, referral,			
Primary Medical Diagnosis: Suspected spinal cord	transfer process			
injury following MVA, conscious, may have had	change has a set			
brief LOC following accident. Client removed from				
vehicle and transferred with neck and spine				
precautions.				
Initial assessment at scene done and on admission to				
ER				
Client requires preliminary x-rays prior to, possible				
transfer to larger centre with neurovascular unit				
Surgeries/Procedures & Dates:				
No past history				

Scenario TOPIC: Management of suspected spinal cord injury in a <u>rural</u> area

Context: This scenario can be used in different locations, with different primary disciplinary focus.

It is a role playing simulation/round table discussion amongst an Interdisciplinary Planning Team where students would enter scenario with certain information and past knowledge.

- Scenario geared for higher level students;
- Radiation technologist student in Level 6
- 3rd or 4th year nursing students

OVERALL GOAL:

Effectively communicate, as a team, to develop an interdisciplinary care plan

LEARNING OBJECTIVES

THE LEARNER WILL:

- 1. Demonstrate an understanding of the roles and responsibilities of the interdisciplinary care team (present and anticipated)
- 2. Demonstrate group dynamics that ensures effective communication
- 3. Identify personal strengths and weaknesses in your communication
- 4. Work with other inter disciplinary team members, ensuring Radiation protection of the patient and team members

Evaluation tool

Team will submit an interdisciplinary care plan that ensures client safety and optimal outcomes

Fidelity (choose all that apply to this simulation)

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Setting/Environment	Medications and Fluids			
• ER	• IV Fluids:			
• Med-Surg				
• Peds	• Oral Meds:			
• ICU				
\circ OR / PACU	• IVPB :			
• Women's Center				
• Behavioral Health	• IV Push:			
• Home Health				
• Pre-Hospital	\circ IM or SC:			
• Other: @ ER nursing station				
Simulator Manikin/s Needed: manikin	Diagnostics Available			
with neck brace, on board. Full spinal	• Labs			
precautions we should also include the				
hard collar sand bags or towel rolls and at	• <u>X-rays (Images)</u>			
least 5 straps for the back board.	• <u>12-Lead EKG</u>			
Team to demonstrate and practice care,	• Other possible use of teleconferencing			
movement and transfer of client.	with larger trauma centre			
Vocal response to answer questions if	Documentation Forms			
determining S & S, choices re transfer				
etc.	• Physician Orders:			
Trends can be set to indicate typical	• X-ray requisition signed by a physician			
• =	with correct orders			
response to spinal cord injury, response	Admit Orders			
to MVA.	• Flow sheet			
	Neurological assessment tool			
Props: Table, chairs, chart—could occur	Medication Administration Record			
in radiology with a focus on working as a	• Kardex			
team to ensure best practice re client	Graphic Record			
safety and xray procedure.	Shift Assessment			
Could include a set up that reflects a	Triage Forms			
teleconference to mimic likely	• Code Record			
communication with external consult or	• Anesthesia / PACU Record			
regarding transfer process	• Standing (Protocol) Orders			
Equipment attached to manikin:	• Transfer Orders			
• IV tubing with primary line x 2 same arm	• Other: forms re out of province coverage			
of N/S fluids running at 50_ cc/hr				
 Secondary IV line running atcc/hr 				
• IV pump	Recommended Mode for Simulation			
• Foley catheter insitu, 100 cc output	(i.e. manual, programmed, etc.)			
 PCA pump running 	Manual			
• IVPB with running at cc/hr	To respond to varied team input			
• 02 by mask or N/P				
• Monitor attached				
• ID band				
• Other: neck brace on back board as above				

• Other; neck brace, on back board as above

Equipment available in room Bedpan/Urinal Foley kit Straight Catheter Kit Incentive Spirometer Fluids IV start kit IV tubing IV PB Tubing IV PB Tubing Pressure Bag 02 delivery device (type) Crash cart with airway devices and emergency medications Defibrillator/Pacer Suction Antistatic slider board Portable x-ray machine Cassettes "Grid" sleeves Tape Lead protection for client and staff 	
Roles / Guidelines for Roles • Primary Nurse • Secondary Nurse • Clinical Instructor • Family Member #1 • Family Member #2 • Observer/s • Recorder • Physician / Advanced Practice Nurse • Respiratory Therapy • Anesthesia • Pharmacy • Lab • Imaging • Social Services (possible) • Clergy (possible) • Unlicensed Assistive Personnel • Code Team • Other; EMT, medical student, player of teleconference consultant	 Student Information Needed Prior to Scenario: Has been oriented to simulator Understands guidelines /expectations for scenario Has accomplished all pre-simulation requirements All participants understand their assigned roles Has been given time frame expectations Inform Radiology that client is a trauma code Report Students Will Receive Before Simulation Time: re medical history of client, their role

Significant Lab Values	
Physician Orders: IV's, foley catheter, monitor, O2 per mask or N/P to keep o2 sats> 95 % neurological assessment per routine, trauma assessment	
Trauma routine- AP supine Chest, pelvis and cross table lateral cervical (and cross table lumbar spine- due to patient condition) x-rays	
Determine access for teleconference for neurological consult once xrays obtained	

References, Evidence-Based Practice Guidelines, Protocols, or Algorithms Used For This Scenario: (site source, author, year, and page)

Management of spinal cord injury (cite a med surgical nursing textbook)

Radiology sources re required xrays, positioning – need for xrays within department vs portable views

Portable x-rays usually done as a trauma routine on arrival of client, CXR, AP Pelvis, lateral cervical spine. In this instance a portable cross table lateral is also requested

Scenario Progression Outline

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Timing (approximate)	Manikin Actions	Expected Interventions	May Use the Following Cues			
0 -3	Questions what is happening, why do I have do wear this brace?	• Client's questions will be answered, reassurance given based on evidence of best practice	Role member providing cue: Cue: mannequin voices questions			
3 - 6	Resting, Team members present For discussion re required treatments or x ray or transfer One team member can be assigned responsibility of monitoring client status ; IV's, monitor, c/o pain, neurological status	 Teamwork to create best options for care Indicate understanding of each disciplines scope of practice – ie need for clear xray orders, need for members to ensure safe transfer or movement. Client is placed on a antistatic board, which is radiolucent after spinal and rectal exam 	Role member providing cue: Cue:			
6 -10	 Team members work together to safely transfer and position client for xray on antistatic slider board Mannequin expresses fear and concerns while being moved. Client complains of discomfort while on slider board 	 Explanations given to client Integrity of spinal precautions maintained Technologist explains to client that slider will be elevated for some views. Staff need to be alerted to clear room or wear lead protection 	Role member providing cue: Cue: voice prompts by mannequin A team member asking question about best procedure			
10 -15	Team members work together to discuss options – may expand scenario to have teleconference consult, possible arrange transfer	 Collegial discussion, collaborative effort towards positive client outcomes respect of each disciplines input, responsibilities ability to communicate client statues via teleconference 	Role member providing cue: each member can ask question that relates to their discipline Cue: each member can be given a written prompt at beginning of scenario to use at this point			

- 1. How did you feel throughout the simulation experience?
- 2. Describe the objectives you were able to achieve?
- 3. Which ones were you unable to achieve (if any)?
- 4. Did you have the knowledge and skills to meet objectives?
- 5. Were you satisfied with your ability to work through the simulation?
- 6. To Observer: Could the nurses/Technologist have handled any aspects of the simulation differently?
- 7. If you were able to do this again, how could you have handled the situation differently?
- 8. What did the group do well?
- 9. What did the team feel was the primary nursing diagnosis?
- 10. What were the key assessments and interventions?
- 11. Did the x-ray technologist perform the exam in the logical order , with attention to patient condition?
- 12. Did the Technologist adhere to the Radiation protection guidelines of the department and ALARA?
- 13. Did the Technologist use appropriate skills for imaging client?
- 14. Is there anything else you would like to discuss

* ask re leadership styles, communication within team, and increased awareness of multidisciplinary scope of practice

Complexity – Simple to Complex

Suggestions for Changing the Complexity of This Scenario to Adapt to Different Levels of Learners