

Module Report

Tutorial: Real Life RN Medical Surgical 4.0

Module: Total Hip Arthroplasty



Individual Name: Rachel Dietz

Institution: Margaret H Rollins SON at Beebe Medical Center

Program Type: Diploma

Standard Use Time and Score

	Date/Time	Time Use	Score
Total Hip Arthroplasty	11/15/2023 1:00:25 PM	2 hr 32 min	Satisfactory

Reasoning Scenario Details

Total Hip Arthroplasty - Use on 11/15/2023 10:28:43 AM

Reasoning Scenario Performance Related to Outcomes:

*See Score Explanation and Interpretation below for additional details.

Body Function	Strong	Satisfactory	Needs Improvement
Cardiac Output and Tissue Perfusion	66.7%	16.7%	16.7%
Cognition and Sensation	100%		
Immunity	100%		
Ingestion, Digestion, Absorption & Elimination	100%		
Mobility	40%	40%	20%
Oxygenation	50%	25%	25%
Regulation and Metabolism	75%	25%	

NCLEX RN	Strong	Satisfactory	Needs Improvement
RN Management of Care	50%	50%	
RN Safety and Infection Control	100%		
RN Health Promotion and Maintenance			100%
RN Basic Care and Comfort	100%		

RN Pharmacological and Parenteral Therapies	100%		
RN Reduction of Risk Potential	58.3%	25%	16.7%
RN Physiological Adaptation	100%		

QSEN	Strong	Satisfactory	Needs Improvement
Safety	71.4%	28.6%	
Patient-Centered Care	66.7%		33.3%
Evidence Based Practice	63.6%	18.2%	18.2%
Teamwork and Collaboration		100%	

Thinking Skills	Strong	Satisfactory	Needs Improvement
Clinical Application	37.5%	37.5%	25%
Clinical Judgment	78.6%	14.3%	7.1%

Decision Log:

Scenario	The preoperative consult nurse is identifying the risk factors associated with postoperative complications.
Question	Nurse Amani is reviewing Dale's medical record. Which of the following findings should Amani identify as a risk factor for postoperative complications?
Selected Ordering	BMI Age
Rationale	Dale's age presents a risk factor for postoperative complications. At this age group, clients are more likely to experience physiological complications and hypothermia during surgery respiratory and cardiac complications following surgery.

Optimal Decision	
Scenario	Dale is returning demonstration of each of the postoperative exercises.
Question	Nurse Amani is observing Dale return demonstration of the postoperative exercises. Which of the following demonstrations by Dale indicate the teaching has been effective?
Selected Option	Client correctly performed the ankle pumps exercise
Rationale	Dale correctly performed the ankle pumps exercise which involves moving the ankle so that the foot alternately dorsiflexes and plantar flexes. This exercise should be performed at least 10 times every hour while awake. It promotes blood flow to the lower leg by contracting and relaxing the muscles in the calf.

Optimal Decision

Scenario	Amani is reviewing Dale's home medications and instructing them which home medication to take on the day of surgery.
Question	Nurse Amani is reviewing Dale's electronic medication record (EMR). Based on the provider's prescriptions, Amani should instruct Dale to take which of the following medications on the morning of surgery?
Selected Option	Amlodipine
Rationale	Nurse Amani should recognize that the provider's prescription indicates the medication to manage hypertension should be taken the morning of surgery. Amlodipine is a calcium channel blocker which is used to manage hypertension. Therefore, Nurse Amani should instruct Dale to take this medication the day of surgery.

Optimal Decision	
Scenario	The preoperative holding nurse evaluates the data and determines next steps.
Question	Nurse Bobby Lee has obtained and reviewed Dale's vital signs. Based on these findings, which of the following actions should Bobby Lee take?
Selected Option	Measure Dale's legs for compression stockings
Rationale	Nurse Bobby Lee should identify that Dale's vital signs are within their expected reference ranges. Therefore, they should proceed with preparing Dale for surgery by measuring Dale's calf for the compression stockings.

Optimal Decision	
Scenario	The nurse is selecting the appropriate size of compression stockings for the client.
Question	Nurse Bobby Lee has measured Dale's legs for the compression stockings and documented the findings in the preoperative checklist. Using the graph below, which of the following sizes should Bobby Lee select? Compression Stocking Sizing Chart Size Calf Circumference L39.4 to 45.7 cm XL43.2 to 48.3 cm XXL45.7 to 53.3 cm XXXL53.3 to 66 cm Length Leg Length Regular40.6 to 45.7 cm Long45.7 to 50.8 cm
Selected Option	XL Regular
Rationale	Nurse Bobby Lee should identify that the conversion of inches to centimeters requires multiplying the values in inches by 2.54. Therefore, Dale's calf circumference would be 48 cm and the length would be 45.47 cm. Bobby Lee should select an XL Regular pair of compression stockings.

Optimal Decision	
Scenario	The nurse is reviewing the provider's preoperative orders and is completing the preoperative checklist.
Question	Nurse Bobby Lee is completing the preoperative checklist to prepare Dale for surgery. Which of the following tasks is the priority for Bobby Lee to complete?
Selected Option	Insert peripheral IV access

Rationale	When using the airway, breathing, circulation priority framework, Nurse Bobby Lee should first initiate IV access to provide fluids to Dale, who is NPO to avoid hypovolemia, as well as prescribed IV antibiotics to reduce the risk of infection.
------------------	---

Optimal Decision	
Scenario	The acute care nurse is reviewing the postoperative orders for the client.
Question	Nurse Merryll is completing a review of Dale's postoperative prescriptions. Which of the actions should Merryll plan to take?
Selected Option	Administer the cefazolin at 1815
Rationale	According to Dr. Claw's prescription this medication is to be administered every 8 hr for 24 hr postoperatively. Nurse Merryll should plan to administer the cephazolin to Dale via intermittent IV bolus at 1815, which is 8 hours after the dose received in the operating room.

Optimal Decision	
Scenario	Merryll must determine which assessment findings requires further action.
Question	Nurse Merryll is reviewing the findings from the postoperative assessment completed for Dale. Which of the following findings should Merryll address?
Selected Option	Vital Signs
Rationale	Nurse Merryll should identify that Dale's vital signs are not all within the expected reference range and requires further action.

Optimal Decision	
Scenario	Nurse Merryll is identifying actions to implement first.
Question	Nurse Merryll is planning care for Dale. Which of the following actions should Merryll take first to address Dale's temperature?
Selected Option	Apply a warm blanket.
Rationale	When using the evidence-based practice priority framework, Nurse Merryll should identify that the first action to take to address Dale's postoperative temperature is to apply a warm blanket. This reduces heat loss and provides warmth to a large body surface area, effectively bringing Dale's temperature up to the expected reference range.

Scenario	Merryll is determining which actions to take based upon the neurovascular assessment.
Question	Nurse Merryll has entered the information from the neurovascular assessment of Dale's right lower extremity. Based on the assessment findings, which of the following actions should Merryll take?
Selected Option	Perform passive range of motion on Dale's right leg.
Rationale	Nurse Merryll should identify that passive range of motion will not address the unexpected finding of Dale's neurovascular assessment. The alteration in pulse strength could indicate a change in perfusion to their right leg and could result in serious complications if not addressed quickly.

Scenario	Casey assists Merryll with identifying location to obtain pedal pulse.
Question	Nurse Merryll is using a doppler to obtain Dale's right pedal pulse. In which of the following locations should Merryll place the transducer probe of the doppler? Image rl_ams_hip_rn_20B2_20C2_hs.jpg
Selected Option	C – The top of the foot
Rationale	Nurse Merryll should identify that this is the location of the dorsalis pedis artery and should place the transducer probe of the doppler on the dorsal aspect of the foot lateral to the extensor tendon in line with the area between the great toe and the next toe. Merryll should also use a small amount of transmission gel on the tip of the probe and place the tip of the probe at a 45° to 90° angle on Dale's skin while moving the probe around in a small area until they hear a rhythmic "whooshing" sound.

Optimal Decision	
Scenario	Merryll is determining which medication to administer to Dale to address their pain.
Question	Nurse Merryll is reviewing Dale's EMR to determine which pain medication should be administered to manage Dale's current pain level. Which of the following medications should Merryll prepare to administer?
Selected Option	Morphine
Rationale	Nurse Merryll should identify that Dale is experiencing severe pain in their right hip. Therefore, Merryll should administer morphine IV, which is an opioid analgesic that is used to manage moderate to severe pain. This medication can be administered every 2 hr and is available for administration at this time.

Optimal Decision	
Scenario	Merryll and Shannon are assisting Dale back to bed.
Question	Nurse Merryll and assistive personnel Shannon are preparing to assist Dale with transferring back to bed. After reviewing Yoshi's progress note, which of the following videos demonstrate the actions Merryll should take?
Selected Option	Nurse and AP assist client to chair with gait belt and use of walker
Rationale	Nurse Merryll and AP Shannon observed safety measures and correct body mechanics when assisting Dale in transferring from the chair to the bed. Nurse Merryll applied a gait belt, which provides stability for the client and reduces the risk for injury. While assisting with the transfer, they used a wide base of support with their legs, which provides stability and reduces the risk for injury and falls.

Optimal Decision	
Scenario	Merryll is identifying findings that require further action.
Question	Nurse Merryll is reviewing Dale's EMR. Which of the following findings should Nurse Merryll plan to address?
Selected Option	Skin integrity
Rationale	Nurse Merryll should identify that Dale's heels require further assessment. The information in Dale's EMR indicate that their skin integrity is a potential concern.

Optimal Decision	
Scenario	Merryll is completing an assessment of Dale.
Question	Nurse Merryll is performing an assessment of Dale. For which of the following findings should Nurse Merryll take further action?
Selected Option	Lung sounds
Rationale	Nurse Merryll should identify crackles during auscultation of Dale's lungs. This is often caused by the partial obstruction or collapse of the alveoli and requires further action.

Scenario	Merryll is reviewing the client's EMR to identify actions to take.
Question	Nurse Merryll has documented Dale's assessment findings. After reviewing Dale's EMR, which of the following actions should Nurse Merryll take? (Select all that apply.)
Selected Ordering	Assist with using incentive spirometerEncourage cough and deep breathing exercisesPromote fluid intakeEncourage ambulation
Rationale	Nurse Merryll should identify specific interventions that should be taken to address Dale's atelectasis. Managing pain will make it more likely that Dale will be comfortable with ambulation, which promotes lung expansion.

Scenario	Nurse Merryll and Charge Nurse Casey are discussing Dale's plan of care.
Question	After reviewing Dale's plan of care with charge nurse Casey, which of the following postoperative complications should nurse Merryll identify that Dale is at risk for developing based upon the assessment findings?
Selected Option	Atelectasis
Rationale	Nurse Merryll should identify that atelectasis is the partial or complete collapse of the alveoli. It is a complication that can occur after surgery related to decreased mobility and shallow respirations. Manifestations include crackles. Therefore, Merryll should identify that Dale is at risk for this complication.

Scenario	Merryll is reviewing hip precautions with Dale.
Question	Nurse Merryll is discussing hip precautions with Dale. Which of the following statements by Dale indicate an understanding of the precautions? (select all that apply)
Selected Ordering	"I should avoid standing with my toes pointed inward." "I should sit in chairs that allow my right knee to be lower than my hip."
Rationale	Nurse Merryll should identify that Dale understands hip precautions when they make a statement about sitting in a chair with their right knee lower than their hip.

Scenario	Merryll reinforces hip precautions teaching with Dale.
Question	Nurse Merryll reinforces hip precautions with Dale. Which of the following statements by Dale indicates an understanding of the teaching?

Selected Option	"I cannot cross my legs."
Rationale	Nurse Merryll should identify that the teaching has been understood when Dale states that their legs should not be crossed. This results in adduction which can cause injury to the hip.

Optimal Decision	
Scenario	Merryll is completing Dale's daily VTE risk assessment screening tool.
Question	Nurse Merryll is reviewing the VTE screening tool and completing the information pertaining to Dale. Based upon Dale's history, what score should Merryll assign to Dale regarding the risk for VTE? (Refer to the electronic medical records to review the VTE screening tool.)
Selected Option	10
Rationale	Merryll should identify that based upon Dale's history; they have the following risk factors for VTE: Age 61-74 = 2 pt BMI > 25 = 1 pt Elective Arthroplasty (Lower extremity) = 5 pt Major surgery > 45 min = 2 pt These factors indicate Dale has a high risk for the development of VTE with a total risk factor score of 10.

Optimal Decision	
Scenario	Merryll is reviewing Dale's EMR for nutritional recommendations.
Question	Nurse Merryll is reviewing Dale's EMR. Based upon Dale's history and laboratory results, which of the following nutritional recommendations should Merryll make?
Selected Option	Encourage Dale to increase their protein intake.
Rationale	After reviewing Dale's EMR, Nurse Merryll should identify that Dale's is at risk for delayed wound healing because of their BMI. Adipose tissue can impair circulation and delivery of essential nutrients and antibodies needed for wound healing. Protein is an important and essential macronutrient to replace blood lost during the surgical procedure and to promote healing. It is important for each phase of the wound healing process. Therefore, Nurse Merryll should encourage Dale to increase their intake of protein.

Scenario	Merryll is participating in interprofessional rounds about Dale and is reviewing their EMR.
Question	While discussing Dale's care with Nurse Case Manager Terry, Merryll reviews Dale's EMR. Which of the following findings should Nurse Merryll identify as indicators for inpatient rehabilitation? (Select all that apply.)
Selected Ordering	Ambulation distance Wound care needs Functional self-care ability Home safety
Rationale	After reviewing Dale's EMR, Nurse Merryll should identify that home safety is a finding that indicates the need for inpatient rehabilitation.

Individual Report – Score Explanation and Interpretation

Reasoning Scenario Information:

Reasoning Scenario Information provides the date, time and duration of use, along with the score earned for each attempt. A Reasoning Scenario Performance score of Strong, Satisfactory, or Needs Improvement is provided for each attempt. This information is also provided for the Optimal Decision Mode if it has been enabled.

Reasoning Scenario Performance Scores:

Strong	Exhibits optimal reasoning that results in positive outcomes in the care of clients and resolution of problems.
Satisfactory	Exhibits reasoning that results in mildly helpful or neutral outcomes in the care of clients and resolution of problems.
Needs Improvement	Exhibits reasoning that results in harmful or detrimental outcomes in the care of clients and resolution of problems.

Reasoning Scenario Performance Related to Outcomes:

A clinical reasoning performance score related to each outcome is provided. Outcomes associated with student responses are listed in the report. The number across from each outcome indicates the percentage of responses associated with the level of performance of that outcome.

NCLEX® Client Need Categories:

Management of Care	Providing integrated, cost-effective care to clients by coordinating, supervising, and/or collaborating with members of the multi-disciplinary health care team.
Safety and Infection Control	Incorporating preventative safety measures in the provision of client care that provides for the health and well-being of clients, significant others, and members of the health care team.
Health Promotion and Maintenance	Providing and directing nursing care that encourages prevention and early detection of illness, as well as the promotion of health.
Psychosocial Integrity	Promoting mental, emotional, and social well-being of clients and significant others through the provision of nursing care.
Basic Care and Comfort	Promoting comfort while helping clients perform activities of daily living.
Pharmacological and Parenteral Therapies	Providing and directing administration of medication, including parenteral therapy.
Reduction of Risk Potential	Providing nursing care that decreases the risk of clients developing health-related complications.

Physiological Adaptation	Providing and directing nursing care for clients experiencing physical illness.
---------------------------------	---

Quality and Safety Education for Nurses (QSEN)

Safety	The minimization of risk factors that could cause injury or harm while promoting quality care and maintaining a secure environment for clients, self, and others.
Patient-Centered Care	The provision of caring and compassionate, culturally sensitive care that is based on a client's physiological, psychological, sociological, spiritual, and cultural needs, preferences, and values
Evidence Based Practice	The use of current knowledge from research and other credible sources, upon which clinical judgment and client care are based.
Informatics	The use of information technology as a communication and information gathering tool that supports clinical decision making and scientifically based nursing practice.
Quality Improvement	Care related and organizational processes that involve the development and implementation of a plan to improve health care services and better meet the needs of clients.
Teamwork and Collaboration	The delivery of client care in partnership with multidisciplinary members of the health care team, to achieve continuity of care and positive client outcomes.

Body Function

Cardiac Output and Tissue Perfusion	The anatomical structures (heart, blood vessels, and blood) and body functions that support adequate cardiac output and perfusion of body tissues.
Cognition and Sensation	The anatomical structures (brain, central and peripheral nervous systems, eyes and ears) and body functions that support perception, interpretation, and response to internal and external stimuli.
Excretion	The anatomical structures (kidney, ureters, and bladder) and body functions that support filtration and excretion of liquid wastes, regulate fluid and electrolyte and acid-base balance.
Immunity	The anatomic structures (spleen, thymus, bone marrow, and lymphatic system) and body functions related to inflammation, immunity, and cell growth.
Ingestion, Digestion, Absorption and Elimination	The anatomical structures (mouth, esophagus, stomach, gall bladder, liver, small and large bowel, and rectum) and body functions that support ingestion, digestion, and absorption of food and elimination of solid wastes from the body.
Integument	The anatomical structures (skin, hair, and nails) and body functions related to protecting the inner organs from the external environment and injury.
Mobility	The anatomical structures (bones, joints, and muscles) and body functions that support the body and provide its movement.

Oxygenation	The anatomical structures (nose, pharynx, larynx, trachea, and lungs) and body functions that support adequate oxygenation of tissues and removal of carbon dioxide.
Regulation and Metabolism	The anatomical structures (pituitary, thyroid, parathyroid, pancreas, and adrenal glands) and body functions that regulate the body's internal environment.
Reproduction	The anatomical structures (breasts, ovaries, fallopian tubes, uterus, vagina, vulva, testicles, prostate, scrotum, and penis) and body functions that support reproductive functions.

Decision Log

Information related to each question answered in a scenario attempt is listed in the report. A brief description of the scenario, question, selected option and rationale for that option are provided for each question answered. The words "Optimal Decision" appear next to the question when the most optimal option was selected.

The rationale for each selected option may be used to guide remediation. A variety of learning resources may be used in the review process, including related ATI Review Modules.