

# Module Report

Tutorial: Real Life RN Medical Surgical 4.0

Module: Total Hip Arthroplasty



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Program Type: **Diploma**

## Standard Use Time and Score

	Date/Time (ET)	Time Use	Score
Total Hip Arthroplasty	12/4/2024 3:50:40 PM	47 min	Satisfactory

## Reasoning Scenario Details

### Total Hip Arthroplasty - Use on 12/4/2024 3:04:09 PM ET

#### 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	100%		
Cognition and Sensation	100%		
Immunity	100%		
Ingestion, Digestion, Absorption & Elimination	100%		
Mobility	40%	40%	20%
Oxygenation	20%	40%	40%
Regulation and Metabolism	100%		

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	69.2%	23.1%	7.7%
RN Physiological Adaptation			100%

QSEN	Strong	Satisfactory	Needs Improvement
Safety	85.7%	14.3%	
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	50%	37.5%	12.5%
Clinical Judgment	78.6%	7.1%	14.3%

### Decision Log:

Optimal Decision	
<b>Scenario</b>	The preoperative consult nurse is identifying the risk factors associated with postoperative complications.
<b>Question</b>	Nurse Amani is reviewing Dale's medical record. Which of the following findings should Amani identify as a risk factor for postoperative complications?
<b>Selected Ordering</b>	BMI Age Blood pressure history
<b>Rationale</b>	Nurse Amani should identify that Dale's blood pressure and history of hypertension pose a risk factor postoperatively. Clients who have hypertension are more likely to experience and respiratory and cardiac complications following surgery.

Optimal Decision	
<b>Scenario</b>	Dale is returning demonstration of each of the postoperative exercises.
<b>Question</b>	Nurse Amani is observing Dale return demonstration of the postoperative exercises. Which of the following demonstrations by Dale indicate the teaching has been effective?
<b>Selected Option</b>	Client correctly performed the ankle pumps exercise
<b>Rationale</b>	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	
<b>Scenario</b>	Amani is reviewing Dale's home medications and instructing them which home medication to take on the day of surgery.
<b>Question</b>	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?
<b>Selected Option</b>	Amlodipine
<b>Rationale</b>	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	
<b>Scenario</b>	The preoperative holding nurse evaluates the data and determines next steps.
<b>Question</b>	Nurse Bobby Lee has obtained and reviewed Dale's vital signs. Based on these findings, which of the following actions should Bobby Lee take?
<b>Selected Option</b>	Measure Dale's legs for compression stockings
<b>Rationale</b>	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	
<b>Scenario</b>	The nurse is selecting the appropriate size of compression stockings for the client.
<b>Question</b>	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? <b>Compression Stocking Sizing Chart</b> <b>Size Calf Circumference</b> L39.4 to 45.7 cmXL43.2 to 48.3 cmXXL45.7 to 53.3 cmXXXL53.3 to 66 cm <b>Length Leg Length</b> Regular40.6 to 45.7 cmLong45.7 to 50.8 cm
<b>Selected Option</b>	XL Regular
<b>Rationale</b>	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	
<b>Scenario</b>	The nurse is reviewing the provider's preoperative orders and is completing the preoperative checklist.
<b>Question</b>	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?
<b>Selected Option</b>	Insert peripheral IV access

<b>Rationale</b>	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.
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<b>Optimal Decision</b>	
<b>Scenario</b>	The acute care nurse is reviewing the postoperative orders for the client.
<b>Question</b>	Nurse Merryll is completing a review of Dale's postoperative prescriptions. Which of the actions should Merryll plan to take?
<b>Selected Option</b>	Administer the cefazolin at 1815
<b>Rationale</b>	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.

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

<b>Optimal Decision</b>	
<b>Scenario</b>	Nurse Merryll is identifying actions to implement first.
<b>Question</b>	Nurse Merryll is planning care for Dale. Which of the following actions should Merryll take first to address Dale's temperature?
<b>Selected Option</b>	Apply a warm blanket.
<b>Rationale</b>	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.

<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll is determining which actions to take based upon the neurovascular assessment.
<b>Question</b>	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?
<b>Selected Option</b>	Obtain Dale's right pedal pulse using a doppler.

<b>Rationale</b>	Nurse Merryll should identify that Dale's right pedal pulse was not palpable, which could indicate an alteration in perfusion to their right leg. Therefore, Merryll should take further actions to determine the presence of a pedal pulse by using a doppler device.
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<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll is determining which medication to administer to Dale to address their pain.
<b>Question</b>	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?
<b>Selected Option</b>	Morphine
<b>Rationale</b>	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.

<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll and Shannon are assisting Dale back to bed.
<b>Question</b>	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?
<b>Selected Option</b>	Nurse and AP assist client to chair with gait belt and use of walker
<b>Rationale</b>	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.

<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll is identifying findings that require further action.
<b>Question</b>	Nurse Merryll is reviewing Dale's EMR. Which of the following findings should Nurse Merryll plan to address?
<b>Selected Option</b>	Skin integrity
<b>Rationale</b>	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.

<b>Scenario</b>	Merryll is completing an assessment of Dale.
<b>Question</b>	Nurse Merryll is performing an assessment of Dale. For which of the following findings should Nurse Merryll take further action?
<b>Selected Option</b>	Doppler of pedal pulse
<b>Rationale</b>	Nurse Merryll should identify that the assessment of Dale's pulses using the doppler are expected findings. No alterations in pulse strength or rate are noted; therefore, no further action is required.

<b>Scenario</b>	Merryll has completed their assessment of Dale.
<b>Question</b>	Nurse Merryll reassesses Dale's lungs and hears high-pitched, fine, popping sounds. Which of the following terms should Merryll use to document this assessment finding in the EMR?
<b>Selected Option</b>	Crackles
<b>Rationale</b>	Nurse Merryll should identify that crackles are unexpected breath sounds associated with partially or fully collapsed alveoli or small amounts of fluid in the bronchioles. The sounds are bubbling, high-pitched popping sounds heard during inspiration that do not clear with coughing.

<b>Scenario</b>	Merryll is reviewing the client's EMR to identify actions to take.
<b>Question</b>	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. )
<b>Selected Ordering</b>	Assist with using incentive spirometer Encourage cough and deep breathing exercises Encourage ambulation
<b>Rationale</b>	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.

<b>Scenario</b>	Nurse Merryll and Charge Nurse Casey are discussing Dale's plan of care.
<b>Question</b>	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?
<b>Selected Option</b>	Hemothorax
<b>Rationale</b>	Nurse Merryll should identify that a hemothorax is a collection of blood in the thoracic cavity which results from trauma or other medical conditions. Manifestations of a hemothorax include diminished or absent breath sounds unilaterally.

<b>Scenario</b>	Merryll is reviewing hip precautions with Dale.
<b>Question</b>	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)
<b>Selected Ordering</b>	"I should avoid standing with my toes pointed inward." "I can twist my body while standing." "I should sit in chairs that allow my right knee to be lower than my hip."
<b>Rationale</b>	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.

<b>Scenario</b>	Merryll reinforces hip precautions teaching with Dale.
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<b>Question</b>	Nurse Merryll reinforces hip precautions with Dale. Which of the following statements by Dale indicates an understanding of the teaching?
<b>Selected Option</b>	"I cannot cross my legs."
<b>Rationale</b>	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.

<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll is completing Dale's daily VTE risk assessment screening tool.
<b>Question</b>	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.)
<b>Selected Option</b>	10
<b>Rationale</b>	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.

<b>Optimal Decision</b>	
<b>Scenario</b>	Merryll is reviewing Dale's EMR for nutritional recommendations.
<b>Question</b>	Nurse Merryll is reviewing Dale's EMR. Based upon Dale's history and laboratory results, which of the following nutritional recommendations should Merryll make?
<b>Selected Option</b>	Encourage Dale to increase their protein intake.
<b>Rationale</b>	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.

<b>Scenario</b>	Merryll is participating in interprofessional rounds about Dale and is reviewing their EMR.
<b>Question</b>	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.)
<b>Selected Ordering</b>	Vital signs Ambulation distance Home safety
<b>Rationale</b>	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:

<b>Strong</b>	Exhibits optimal reasoning that results in positive outcomes in the care of clients and resolution of problems.
<b>Satisfactory</b>	Exhibits reasoning that results in mildly helpful or neutral outcomes in the care of clients and resolution of problems.
<b>Needs Improvement</b>	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<sup>®</sup> Client Need Categories:

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

<b>Physiological Adaptation</b>	Providing and directing nursing care for clients experiencing physical illness.
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### Quality and Safety Education for Nurses (QSEN)

<b>Safety</b>	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.
<b>Patient-Centered Care</b>	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
<b>Evidence Based Practice</b>	The use of current knowledge from research and other credible sources, upon which clinical judgment and client care are based.
<b>Informatics</b>	The use of information technology as a communication and information gathering tool that supports clinical decision making and scientifically based nursing practice.
<b>Quality Improvement</b>	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.
<b>Teamwork and Collaboration</b>	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

<b>Cardiac Output and Tissue Perfusion</b>	The anatomical structures (heart, blood vessels, and blood) and body functions that support adequate cardiac output and perfusion of body tissues.
<b>Cognition and Sensation</b>	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.
<b>Excretion</b>	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.
<b>Immunity</b>	The anatomic structures (spleen, thymus, bone marrow, and lymphatic system) and body functions related to inflammation, immunity, and cell growth.
<b>Ingestion, Digestion, Absorption and Elimination</b>	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.
<b>Integument</b>	The anatomical structures (skin, hair, and nails) and body functions related to protecting the inner organs from the external environment and injury.
<b>Mobility</b>	The anatomical structures (bones, joints, and muscles) and body functions that support the body and provide its movement.

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

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### **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.