NURSING 101: FOUNDATIONS OF NURSING

UNIT V: NURSING CARE OF THE SURGICAL PATIENT

UNIT OBJECTIVES

AT THE COMPLETION OF THE UNIT, THE STUDENT:

1. Identifies rationale for surgery to be performed.
2. Discusses standards of care of the perioperative patient.
3. Describes the roles of the nurse during each of the three perioperative phases.
4. Applies the nursing process to the perioperative care of the surgical patient.
5. Differentiates between classifications of surgery.
6. Describes the process of informed consent.
7. Discusses essential nursing assessments of the preoperative patient.
8. Describes the importance of psychosocial preparation and readiness for surgery.
9. Describes the process of the systematic physical assessment and identification of surgical risk factors.
10. Describes the nursing role in the preoperative teaching and instructional preparation of the patient for surgery.
11. Discusses the physical preparation of the patient for surgery.
12. Discusses the rationale for preoperative medical and nursing management.
13. Discusses infection control measures utilized in surgical suites.
14. Discusses methods used to maintain patient safety in the operating area.
15. Differentiates the roles of the surgical team members.
16. Differentiates between general, regional, and local anesthesia, including patient response and nursing implications.
17. Identifies positioning and safety considerations of the patient during specific OR procedures.
18. Describes modes and sources of contamination in the OR and prevention measures utilized to minimize surgical risk.
19. Identifies methods to control bleeding during the surgical procedure.
20. Discusses purpose of surgical closure devices and drains.
21. Identifies indications for urinary catheterization, care of catheters, and the techniques for insertion and removal.
22. Describes the principles of aseptic technique.
23. Describes the nursing assessments and management when caring for a client in the Post Anesthesia Care Unit (PACU).
24. Explains the pathophysiology, prevention, and nursing management of common postoperative complications.
25. Demonstrates care of a postoperative surgical wound including dressing changes, cleaning the incision, staple and suture care, and documentation.
26. Discusses principles of infection prevention.
27. Differentiates between the types and purposes of isolation precautions utilized in hospitals.
28. Differentiates between rest and sleep concepts, factors affecting them as well as nursing interventions to promote sleep hygiene.

29. Discusses normal function of pain, pain classifications, physiology of pain, and various methods of pain management available postoperatively.
30. Describes discharge planning including follow-up care, medication reconciliation, care of wound and dressings, activity and diet orders.
31. Understands the impact of stress on health and well-being, the role of self-care and stress reduction, and techniques to reduce stress.
32. Applies the nursing process to postoperative patients requiring pain control.

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
Unit V: Perioperative Nursing **Theory Hours- 21.0** **Clinical Hours- 8.5** I. Introduction to surgery A. Introduction i. Phases of surgery ii. Types of surgery iii. Role of the Perioperative Nurse iv. Locations for surgery v. Classifications of surgery vi. Surgical terminology II. Pre-operative preparation A. Informed Consent i. Roles and responsibilities of informed consent B. Psychosocial Preparation i. Fears ii. Anxiety iii. Assessment 1. Subjective 2. Objective iv. Interventions C. Pre-operative Teaching i. Informational ii. Instructional D. Physical Preparation i. Assessment ii. Review of systems iii. Laboratory studies iv. Other diagnostic studies E. Surgical Risk Factors F. Pre-op Exercises i. Cough, Deep Breath, IS ii. Splinting	Interactive Lecture Poll Everywhere Experiential Learning: Completion of informed consent Interactive Learning: In-class discussion of fears r/t surgery Visual-based active learning: "Return to Me" movie clip followed by reflection and discussion Experiential Learning: Complete pre-op assessment form on peers Cooperative Learning: Review of Systems group activity	OR clinical Gaming: Matching worksheet General Surgical Practice Clinical In-patient clinical, as assigned ATI Engage Fundamentals: The Surgical Client	Pre & Post-Conference: Care of the surgical patient Class Preparation Anecdotal Care Plan

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
iii. Turning, OOB iv. TEDs, EPC's G. Physical Preparation the evening before surgery i. GI ii. Skin iii. Medications H. Preparation for the Operating Area i. Preoperative checklist ii. Hygiene and attire iii. Valuables, jewelry iv. Medications	Visual-based active learning: Watch video on pre-op teaching, return demonstrate in class. Apply TEDs. Experiential Learning: Completion of preop checklist		
III. Intraoperative Preparation A. Introduction to Intraoperative B. Physical Environment of the OR i. Geographic isolation ii. Bacteriologic isolation 1. Restricted areas 2. Ventilation iii. Centralized equipment iv. Specialized personnel 1. Roles of the surgical team C. Nursing Management of the Surgical Patient i. Patient identification ii. Assessment iii. Time out D. Anesthesia i. Anesthesia types ii. Risks and benefits of each iii. Considerations for anesthesia care E. Malignant Hyperthermia	Collaborative learning: Begin evolving case studies, working in groups Interactive Lecture Poll Everywhere Game-based learning: Kahoot of surgical team roles	Observation in the OR ATI Skills: Preparing for OR Clinical Observation EdPuzzle: Voice-over PPT - Principles of Anesthesia Care	Class Preparation
End content for Exam 1 F. Patient Safety, transferring the patient G. Positioning for surgery i. Options			**Unit Exam Part 1** Class

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
ii. Rationales for each iii. Safety considerations/risks for injury			Preparation
H. Patient safety – other considerations I. Asepsis in the OR i. Technique ii. Sources of contamination iii. Modes of contamination iv. The Sterile Field 1. Surgical hand scrub 2. Sterile gloves – donning 3. Surgical skin preparation 4. Draping v. Blood loss and hemostasis vi. Wound contamination 1. Classifications 2. Degree vii. Wound closure devices and drains 1. Sutures and staples 2. Jackson Pratt 3. Hemovac	Watch video on donning sterile gloves, return demonstration in class Creative learning: "show and tell" surgical items in class Collaborative learning: Continuation of evolving case studies. Guest Speaker: OR nurse educator, tours of the OR suite to follow	Principles of Aseptic Technique/Sterile Field worksheet	
IV. Nursing care of Client in Post-Anesthesia Care Unit A. Transfer from OR to the PACU B. Assessment i. Respiratory Considerations ii. Cardiovascular Considerations iii. Neurological Considerations iv. Genitourinary Considerations v. Gastrointestinal Considerations vi. Pain and Discomfort Considerations vii. Surgical site and Dressing viii. Labs and Diagnostics C. Nursing Interventions for Prevention of PACU Complications i. Respiratory 1. Airway Obstruction 2. Hypoxia	Interactive Lecture		Class Preparation

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
ii. Cardiovascular 1. Hypotension 2. Hypertension 3. Dysrhythmias iii. Neurologic/Psychologic 1. Emergence Delirium 2. Delayed Emergence 3. Anxiety iv. Pain and Discomfort 1. Anesthesiologist Orders 2. Positioning v. Alteration in Temperature 1. Hypothermia vi. Gastrointestinal 1. Nausea and Vomiting D. Discharge from PACU i. Modified Aldrete Scoring System ii. Differences with Ambulatory Surgery V. Nursing Care in Prevention of Postoperative Complications A. Goal of Postoperative Care i. Support Healing and Recovery ii. Prevent Complications iii. Complications 1. Respiratory a. Atelectasis b. Pneumonia c. Aspiration Pneumonia 2. Cardiovascular a. Deep Vein Thrombosis b. Pulmonary Embolus c. Syncope d. Fluid and Electrolyte Imbalances e. Fluid Overload f. Fluid Deficit g. Hypokalemia	Game-Based Learning: Post-op Complications	Aldrete Scoring Handout	

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
3. Genitourinary a. Low Urine Output b. Urinary Retention 4. Gastrointestinal a. Nausea and Vomiting b. Paralytics Ileus 5. Integumentary a. Infection B. Assessment of Postoperative Incision i. Drainage/Cleanliness of Wound a. Sanguineous b. Serosanguineous c. Serous d. Purulent ii. Odor and Amount iii. Approximation /Wound Measurement iv. Presence of Drains v. Erythema or Edema vi. Nature of surrounding Tissue C. Objectives of Wound Care D. Wound Healing Process i. Primary Intention ii. Secondary Intention iii. Tertiary Intention iv. Factors Influencing Wound Healing v. Complications of Wound Healing E. Complications of Wound Healing i. Hemorrhage 1. Internal 2. External ii. Wound Infection iii. Dehiscence iv. Evisceration F. Wound Dressing, Sutures, and Staples	Visual-Based Learning: Show and Tell of Different Types of Wound Care Products Case Study Analyses: ATI Tissue Integrity, Wound Evisceration		

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
i. Dry Sterile Dressing ii. Wound Care Overview & Principles iii. Procedure and Supplies iv. Cleaning the Wound v. Documentation vi. Client Teaching vii. Staple Removal Procedure and equipment G. Discharge Planning and Follow-up Care i. Care of Wound Site and Dressings ii. Medication Needs and Reconciliation iii. Activities Allowed and Prohibited iv. Dietary Concerns v. Symptoms to be Reported vi. Need for Follow-up Care	Visual-Based Learning: Faculty Demonstration Procedure Video of Dry Sterile Dressing Change Visal-Based Learning: Surgical Staple Removal Visual-Based Learning: Surgical Suture Removal	Experiential Learning: Dry Sterile Dressing Change Learning Lab Factors Influencing Wound Healing Handout	
VI. Urinary Catheterization A. Indications 1. CHORUS B. Cautions C. Equipment D. Types of Catheters i. Straight ii. Indwelling 1. Closed Drainage System 2. Leg Bag iii. Condom iv. Coude v. 3-Way vi. PureWick E. Preparation of the Client F. Procedural Steps i. Sterility G. Daily Care of Indwelling Catheters H. Removal of Indwelling Catheter i. Procedure and Supplies			

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
I. Documentation J. Beebe Healthcare's Urinary Catheter Protocol VII. Concepts Related to Health Protection and Infection Control A. Types of Pathogens B. Chain of Infection C. Defenses Against Infection i. Normal Flora ii. Body Systems iii. Inflammation iv. Immune Response D. Healthcare Associated Infections (HAI's) i. Nursing Interventions to Prevent HAI's E. Client Susceptibility F. Clinical Manifestations G. Laboratory Findings H. Nursing Responsibilities i. Prevention of Spread of Infection 1. Hand Hygiene 2. Supporting Defense of Host 3. Sterile Technique 4. Disinfection/Sterilization 5. Patient Placement I. Isolation Precautions i. Responsibilities ii. Standard Vs. Transmission-Based iii. Categories iv. COVID-19 Considerations VIII. Pain and Comfort A. Definition of Pain B. Normal Function of Pain C. Pain Classifications D. Concepts Associated with Pain E. Factors Affecting the Pain Experience F. Psychological Influence G. Pathophysiology i. Pathways	Visual-Based Learning: Faculty Demonstration Procedure Video of Urinary Catheter Procedure Collaborative Learning: Chain of Infection Group Activity Game-Based Learning: Isolation	Experiential Learning: Indwelling Urinary Catheter Learning Lab ATI Engage Fundamentals: Chain of Infection and Body Defenses Case Study Analyses: ATI Video Case Study on Infection Control Pain Physiology PowerPoint	Unit V Part 2, Quiz Class Preparation

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
ii. Gate-Control Theory iii. Endorphins iv. Physiological Responses to Pain H. Barriers to Pain Management I. Impact of Pain i. Assessment 1. Subjective Data 2. Objective Data ii. Pain Management Techniques 1. Non-pharmacologic Pain Management 2. Cognitive Pain Relief techniques 3. Surgical Pain Relief Techniques 4. Pharmacologic Pain Management a. Non-Opioids b. Opioids c. Analgesic Ladder d. PCA e. PCEA iii. Evaluation of Pain Control vi. Documentation	Visual-Based Learning: Gate Control Theory Case Study Analyses: ATI Pain, Pain Management	Faces Pain Scale Handout Nonverbal Pain Scale Handout	
IX. Rest and Sleep A. Definitions i. Sleep ii. Rest B. Characteristics of Normal Sleep and Rest i. Circadian Rhythm ii. REM iii. NREM C. Factors Affecting Sleep and Rest D. Alterations in Sleep and Rest i. Insomnia ii. Narcolepsy iii. Sleep Apnea iv. Sleep Deprivation v. Parasomnia vi. Enuresis	Visual-Based Learning: PCA Management	PCA and PCEA Handouts Flipped Classroom: Rest and Sleep PowerPoint	Class Preparation

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
vii. Bruxism E. Impact of Sleep Dysfunction on ADL's i. Individual Concerns ii. Family Concerns F. Assessment of Sleep/Rest Alterations i. Subjective and Objective Data G. Diagnostic Studies i. Polysomnography H. Nursing Diagnoses/Problems I. Expected Outcomes J. Implementation i. Nursing Interventions to Promote Rest/Sleep ii. Nursing Interventions for Altered Sleep K. Evaluation	Interactive Lecture: Brief Question and Answer on Rest and Sleep		**Unit Exam Part 2**