

# **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
<p><b>Unit V: Perioperative Nursing</b>  <b>Theory Hours- 21.0</b>  <b>Clinical Hours- 9.5</b></p> <p>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</p> <p>II. Pre-operative preparation  A. Informed Consent  i. Roles and responsibilities of informed consent</p> <p>B. Psychosocial Preparation  i. Fears  ii. Anxiety  iii. Assessment  1. Subjective  2. Objective  iv. Interventions</p> <p>C. Pre-operative Teaching  i. Informational  ii. Instructional</p> <p>D. Physical Preparation  i. Assessment  ii. Review of systems  iii. Laboratory studies  iv. Other diagnostic studies</p> <p>E. Surgical Risk Factors</p> <p>F. Pre-op Exercises  i. Cough, Deep Breath, IS  ii. Splinting</p>	<p>Interactive Lecture  Poll Everywhere</p> <p>Experiential Learning:  Completion of informed consent</p> <p>Interactive Learning: In-class discussion of fears r/ t surgery  Visual-based active learning: “Return to Me” movie clip followed by reflection and discussion</p> <p>Experiential Learning:  Complete pre-op assessment form on peers</p> <p>Cooperative Learning:  Review of Systems group activity</p>	<p>OR clinical</p> <p>Gaming: Matching worksheet</p> <p>General Surgical Practice Clinical</p> <p>In-patient clinical, as assigned</p> <p>ATI Engage  Fundamentals: The Surgical Client</p>	<p>Pre &amp; Post-Conference:  Care of the surgical patient</p> <p>Class Preparation</p> <p>Anecdotal Care Plan</p>

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<ul style="list-style-type: none"> <li>iii. Turning, OOB</li> <li>iv. TEDs, EPC's</li> </ul> <p>G. Physical Preparation the evening before surgery</p> <ul style="list-style-type: none"> <li>i. GI</li> <li>ii. Skin</li> <li>iii. Medications</li> </ul> <p>H. Preparation for the Operating Area</p> <ul style="list-style-type: none"> <li>i. Preoperative checklist</li> <li>ii. Hygiene and attire</li> <li>iii. Valuables, jewelry</li> <li>iv. Medications</li> </ul> <p>III. Intraoperative Preparation</p> <ul style="list-style-type: none"> <li>A. Introduction to Intraoperative</li> <li>B. Physical Environment of the OR <ul style="list-style-type: none"> <li>i. Geographic isolation</li> <li>ii. Bacteriologic isolation <ul style="list-style-type: none"> <li>1. Restricted areas</li> <li>2. Ventilation</li> </ul> </li> <li>iii. Centralized equipment</li> <li>iv. Specialized personnel <ul style="list-style-type: none"> <li>1. Roles of the surgical team</li> </ul> </li> </ul> </li> <li>C. Nursing Management of the Surgical Patient <ul style="list-style-type: none"> <li>i. Patient identification</li> <li>ii. Assessment</li> <li>iii. Time out</li> </ul> </li> <li>D. Anesthesia <ul style="list-style-type: none"> <li>i. Anesthesia types</li> <li>ii. Risks and benefits of each</li> <li>iii. Considerations for anesthesia care</li> </ul> </li> <li>E. Malignant Hyperthermia</li> </ul> <p><b>End content for Exam 1</b></p> <ul style="list-style-type: none"> <li>F. Patient Safety, transferring the patient</li> <li>G. Positioning for surgery <ul style="list-style-type: none"> <li>i. Options</li> </ul> </li> </ul>	<p>Visual-based active learning: Watch video on pre-op teaching, return demonstrate in class. Apply TEDs.</p> <p>Experiential Learning: Completion of preop checklist Collaborative learning: Begin evolving case studies, working in groups</p> <p>Interactive Lecture Poll Everywhere</p> <p>Game-based learning: Kahoot of surgical team roles</p>	<p>Observation in the OR ATI Skills: Preparing for OR Clinical Observation</p> <p>EdPuzzle: Voice-over PPT - Principles of Anesthesia Care</p>	<p>Class Preparation</p> <p><b>Unit Exam Part 1</b></p>
	Visual-based active	Principles of Aseptic	Class



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<ul style="list-style-type: none"> <li>ii. Cardiovascular               <ul style="list-style-type: none"> <li>1. Hypotension</li> <li>2. Hypertension</li> <li>3. Dysrhythmias</li> </ul> </li> <li>iii. Neurologic/Psychologic               <ul style="list-style-type: none"> <li>1. Emergence Delirium</li> <li>2. Delayed Emergence</li> <li>3. Anxiety</li> </ul> </li> <li>iv. Pain and Discomfort               <ul style="list-style-type: none"> <li>1. Anesthesiologist Orders</li> <li>2. Positioning</li> </ul> </li> <li>v. Alteration in Temperature               <ul style="list-style-type: none"> <li>1. Hypothermia</li> </ul> </li> <li>vi. Gastrointestinal               <ul style="list-style-type: none"> <li>1. Nausea and Vomiting</li> </ul> </li> <li>D. Discharge from PACU               <ul style="list-style-type: none"> <li>i. Modified Aldrete Scoring System</li> <li>ii. Differences with Ambulatory Surgery</li> </ul> </li> <li>V. Nursing Care in Prevention of Postoperative Complications               <ul style="list-style-type: none"> <li>A. Goal of Postoperative Care                   <ul style="list-style-type: none"> <li>i. Support Healing and Recovery</li> <li>ii. Prevent Complications</li> <li>iii. Complications                       <ul style="list-style-type: none"> <li>1. Respiratory                           <ul style="list-style-type: none"> <li>a. Atelectasis</li> <li>b. Pneumonia</li> <li>c. Aspiration Pneumonia</li> </ul> </li> <li>2. Cardiovascular                           <ul style="list-style-type: none"> <li>a. Deep Vein Thrombosis</li> <li>b. Pulmonary Embolus</li> <li>c. Syncope</li> <li>d. Fluid and Electrolyte Imbalances                               <ul style="list-style-type: none"> <li>e. Fluid Overload</li> <li>f. Fluid Deficit</li> <li>g. Hypokalemia</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>	<p>Game-Based Learning: Post-op Complications</p>	<p>Aldrete Scoring Handout</p>	

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<ul style="list-style-type: none"> <li>3. Genitourinary               <ul style="list-style-type: none"> <li>a. Low Urine Output</li> <li>b. Urinary Retention</li> </ul> </li> <li>4. Gastrointestinal               <ul style="list-style-type: none"> <li>a. Nausea and Vomiting</li> <li>b. Paralytic Ileus</li> </ul> </li> <li>5. Integumentary               <ul style="list-style-type: none"> <li>a. Infection</li> </ul> </li> <li>B. Assessment of Postoperative Incision               <ul style="list-style-type: none"> <li>i. Drainage/Cleanliness of Wound                   <ul style="list-style-type: none"> <li>a. Sanguineous</li> <li>b. Serosanguineous</li> <li>c. Serous</li> <li>d. Purulent</li> </ul> </li> <li>ii. Odor and Amount</li> <li>iii. Approximation /Wound Measurement</li> <li>iv. Presence of Drains</li> <li>v. Erythema or Edema</li> <li>vi. Nature of surrounding Tissue</li> </ul> </li> <li>C. Objectives of Wound Care</li> <li>D. Wound Healing Process               <ul style="list-style-type: none"> <li>i. Primary Intention</li> <li>ii. Secondary Intention</li> <li>iii. Tertiary Intention</li> <li>iv. Factors Influencing Wound Healing</li> <li>v. Complications of Wound Healing</li> </ul> </li> <li>E. Complications of Wound Healing               <ul style="list-style-type: none"> <li>i. Hemorrhage                   <ul style="list-style-type: none"> <li>1. Internal</li> <li>2. External</li> </ul> </li> <li>ii. Wound Infection</li> <li>iii. Dehiscence</li> <li>iv. Evisceration</li> </ul> </li> <li>F. Wound Dressing, Sutures, and Staples               <ul style="list-style-type: none"> <li>i. Dry Sterile Dressing</li> </ul> </li> </ul>	<p>Visual-Based Learning: Show and Tell of Different Types of Wound Care Products</p>		

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<ul style="list-style-type: none"> <li>ii. Wound Care Overview &amp; Principles</li> <li>iii. Procedure and Supplies</li> <li>iv. Cleaning the Wound</li> <li>v. Documentation</li> <li>vi. Client Teaching</li> <li>vii. Staple Removal Procedure and equipment</li> </ul> <p>G. Discharge Planning and Follow-up Care</p> <ul style="list-style-type: none"> <li>i. Care of Wound Site and Dressings</li> <li>ii. Medication Needs and Reconciliation</li> <li>iii. Activities Allowed and Prohibited</li> <li>iv. Dietary Concerns</li> <li>v. Symptoms to be Reported</li> <li>vi. Need for Follow-up Care</li> </ul>	<p>Visual-Based Learning: Faculty Demonstration Procedure Video of Dry Sterile Dressing Change</p>	<p>Experiential Learning: Dry Sterile Dressing Change Learning Lab</p> <p>Factors Influencing Wound Healing Handout</p>	
<p>VI. Urinary Catheterization</p> <ul style="list-style-type: none"> <li>A. Indications <ul style="list-style-type: none"> <li>1. CHORUS</li> </ul> </li> <li>B. Cautions</li> <li>C. Equipment</li> <li>D. Types of Catheters <ul style="list-style-type: none"> <li>i. Straight</li> <li>ii. Indwelling <ul style="list-style-type: none"> <li>1. Closed Drainage System</li> <li>2. Leg Bag</li> </ul> </li> <li>iii. Condom</li> <li>iv. Coude</li> <li>v. 3-Way</li> <li>vi. PureWick</li> </ul> </li> <li>E. Preparation of the Client</li> <li>F. Procedural Steps <ul style="list-style-type: none"> <li>i. Sterility</li> </ul> </li> <li>G. Daily Care of Indwelling Catheters</li> <li>H. Removal of Indwelling Catheter <ul style="list-style-type: none"> <li>i. Procedure and Supplies</li> </ul> </li> <li>I. Documentation</li> </ul>	<p>Visual-Based Learning: Faculty Demonstration Procedure Video of Urinary Catheter Procedure</p>	<p>Experiential Learning:</p>	





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<ul style="list-style-type: none"> <li>E. Impact of Sleep Dysfunction on ADL's               <ul style="list-style-type: none"> <li>i. Individual Concerns</li> <li>ii. Family Concerns</li> </ul> </li> <li>F. Assessment of Sleep/Rest Alterations               <ul style="list-style-type: none"> <li>i. Subjective and Objective Data</li> </ul> </li> <li>G. Diagnostic Studies               <ul style="list-style-type: none"> <li>i. Polysomnography</li> </ul> </li> <li>H. Nursing Diagnoses/Problems</li> <li>I. Expected Outcomes</li> <li>J. Implementation               <ul style="list-style-type: none"> <li>i. Nursing Interventions to Promote Rest/Sleep</li> <li>ii. Nursing Interventions for Altered Sleep</li> </ul> </li> <li>K. Evaluation</li> </ul>			<p><b>Unit Exam Part 2</b></p>