

NURSING 202: ADVANCED CONCEPTS OF NURSING
UNIT VI: TRAUMA AND EMERGENCY NURSING

UNIT OBJECTIVES

AT THE COMPLETION OF THE UNIT, THE STUDENT:

1. Identifies the principles of disaster nursing, emergency nursing, and triage in an emergency situation.
2. Explains the priorities of emergency management in the patient with multiple injuries.
3. Analyzes priority assessments for patients with urgent needs.
4. Demonstrates correct blood administration procedure.
5. Identifies modes of emergency transport and classification of trauma centers.
6. Describes management of hypovolemic shock secondary to trauma by the administration of blood transfusion products.
7. Explains the nursing responsibilities for complications encountered during the intensive and extended care of the trauma patient.
8. Discusses the nursing care of the patient with a burn injury.
9. Relates how trauma affects specific populations.
10. Explains variations in procedures/techniques when resuscitating the pregnant client.
11. Describes the emergency nursing care of the patient with acute injury, i.e., facial, throat, thoracic, abdominal, renal, musculoskeletal, or extremity trauma.
12. Describes the emergency nursing care associated with perfusion emergencies, penetrating wounds, traumatic wounds, exposure injuries, poisoning, drug-related emergencies, water emergencies, and rape trauma.
13. Applies evidence-based practice/best practice standards related to care of the trauma patient.
14. Identifies the uses of capnography pre-hospital and in the acute care setting.

15. Demonstrates knowledge of emergency management, including Joint Commission standards, Critical Incident Stress Management (CISM), and Mass Casualty Incidents (MCIs).

COMMUNITY HEALTH PROJECT:

- See Engage Community Health SLM for content objectives.

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<p>Unit VI Emergency & Trauma Nursing: Theory Hours- 14.5 Clinical Hours- 11.5 SLP- 3 SLM - 1</p> <p>Unit VI Part I:</p> <ul style="list-style-type: none"> I. Triage in the Emergency Situation II. Trauma Systems <ul style="list-style-type: none"> A. Levels of Care B. Trauma Systems in Delaware III. Trauma Assessment <ul style="list-style-type: none"> A. Primary Survey B. Secondary Survey C. Continuation of Care D. Pearls of Trauma Care E. Emergency & Mass Casualty Incident Preparedness IV. Burns <ul style="list-style-type: none"> A. Etiology/ Incidence <ul style="list-style-type: none"> i. Statistics ii. Population at Risk B. Types of Burns <ul style="list-style-type: none"> i. Thermal ii. Radiation iii. Electrical iv. Chemical C. Severity of Burns <ul style="list-style-type: none"> i. Depth of Damage <ul style="list-style-type: none"> 1. Superficial Partial Thickness 2. Partial Thickness 3. Full Thickness ii. Percentage of Burned Surface Area (BSA) and Methods to Calculate <ul style="list-style-type: none"> 1. Rule of Nines 	<p>Stop the Bleed Campaign</p> <p>Experiential Learning: Simulation- Turning a patient with neutral cervical alignment</p> <p>Cooperative & Collaborative Learning: Group Work- Think-Pair-Share: Types of shock in trauma & Pearls of Trauma Assessment, Diagnosis, and Treatment</p> <p>Classroom Assessment Techniques: In-class Test Questions</p> <p>Cooperative & Collaborative Learning: Group Work- Think-Pair-Share</p> <p>Interactive Lecture: Crozer Burn Seminar</p> <p>Experiential Learning: Role Play Case Study Analysis: Case Scenario</p>	<p>Clinical Observations Pre/Post Conference</p> <p>Class Prep: Primary Survey</p>	<p>Class Preparation</p> <p>Clinical Evaluation</p> <p>Simulation</p> <p>Pre/Post Conference</p>

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<ul style="list-style-type: none"> 2. Lund and Browder Chart iii. Major/ Minor Burns iv. Other Considerations <ul style="list-style-type: none"> 1. Past Medical History 2. Other Trauma 3. Special Burned Areas 4. Age D. Pre-Hospital Care <ul style="list-style-type: none"> Assessment/ Care <ul style="list-style-type: none"> i. Fluid Resuscitation <ul style="list-style-type: none"> 1. Parkland Formula E. Pathophysiology of Fluid/ Electrolyte Imbalance F. Pain Management G. Wound Care H. Complications I. Psychological Considerations J. Rehabilitation V. Trauma in Special Populations <ul style="list-style-type: none"> A. Trauma in Pregnancy B. Trauma in Children C. Trauma in the Elderly VI. Specific Conditions/ Injuries <ul style="list-style-type: none"> A. Chest Trauma B. Facial/ Ocular Trauma VII. Emergency Transport <ul style="list-style-type: none"> A. Flight transport safety VIII. Capnography in the Acute Care Setting IX. Forensic Nursing in the Emergency Setting X. Diabetic Emergencies <ul style="list-style-type: none"> A. Diabetic Ketoacidosis (DKA) B. Hypoglycemia 	<ul style="list-style-type: none"> Cooperative & Collaborative Learning: Group Math Calculations Case Study Analysis: Pediatric Trauma Scenarios from Dayton Children's Stanford Children's Imaging Guidelines Interactive Lecture: Guest Speaker on Delaware Trauma Systems and Emergency Transport by Flight Interactive Lecture: Guest Speaker on Capnography in the Acute Care Setting Interactive Lecture: Guest Speaker on Forensic and SANE nursing SLP: Diabetic Emergencies 	<ul style="list-style-type: none"> Review Unit I Blood Transfusion Lecture and Policy Class Prep: Chest Trauma Independent Read and Review Independent Review – Chest Drainage Systems ATI Skills Module: Chest Drainage System 	<p style="text-align: right;">Quiz</p> <p style="text-align: right;">Exam #7</p>

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<p>Unit VI Part II:</p> <p>XI. Community Health</p> <ul style="list-style-type: none"> A. Community & Public Health Nursing <ul style="list-style-type: none"> i. Public Health, Community Health, & Population Health ii. Vulnerability iii. Health Disparities B. Social Determinants of Health (SDOH) <ul style="list-style-type: none"> i. 5 Types ii. Strategies for Improvement C. Prevention Levels <ul style="list-style-type: none"> i. Primary, Secondary, & Tertiary D. Principles in Community & Public Health Nursing <ul style="list-style-type: none"> i. Advocacy ii. Holistic Nursing iii. Communication iv. Culturally Sensitive Care v. Health Literacy vi. Nursing & Health Policy <p>XII. Emergency Department/Urgent Care Trauma</p> <ul style="list-style-type: none"> A. Emergency vs. Urgent Care <ul style="list-style-type: none"> i. Various Trauma ii. Etiology & Pathophysiology iii. Symptoms iv. On-Scene & Emergency Treatment v. Nursing Role vi. Prevention & Teaching B. Poisoning <ul style="list-style-type: none"> i. Ingested Poisons <ul style="list-style-type: none"> 1. Overdose <ul style="list-style-type: none"> a. Acetaminophen & Aspirin 2. Poisonous Plants <ul style="list-style-type: none"> a. Ivy, Oak, Sumac, Hemlock, & Spotted Water Hemlock 	<p>Interactive lecture</p> <p>SLM: Engage Community Health</p> <p>Interactive Learning: In-Class Discussion of Experiences with Emergency & Urgent Care Trauma</p>	<p>ATI Engage Fundamentals: Community Health Modules</p> <p>Community Health Group Project</p> <p>Class Preparation: Emergency & Urgent Care Trauma</p>	

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<ul style="list-style-type: none"> ii. Inhaled Poisons <ul style="list-style-type: none"> 1. Carbon Monoxide & Chlorine iii. Injected Poisons <ul style="list-style-type: none"> 1. Snakes 2. Spiders 3. Jellyfish 4. Hymenoptera Stings <ul style="list-style-type: none"> a. Anaphylaxis 5. Ticks & Tickborne Diseases C. Perfusion Emergencies <ul style="list-style-type: none"> i. Hypertensive Crisis D. Environmental Exposure <ul style="list-style-type: none"> i. Heat Exposure <ul style="list-style-type: none"> 1. Heat Exhaustion & Heat Stroke ii. Cold Exposure <ul style="list-style-type: none"> 1. Frostbite & Hypothermia E. Water Emergencies <ul style="list-style-type: none"> i. Submersion Injuries <ul style="list-style-type: none"> 1. Drowning & Near Drowning ii. Decompression Sickness F. Traumatic Wounds <ul style="list-style-type: none"> i. Puncture Wounds <ul style="list-style-type: none"> 1. Human & Animal Bites <ul style="list-style-type: none"> a. Rabies 2. Fishhook Injuries & Removal Techniques 3. Tetanus ii. Crush Injuries <ul style="list-style-type: none"> 1. Traumatic Amputation G. Penetrating Wounds <ul style="list-style-type: none"> i. Penetrating Neck Injuries ii. Gunshot Wounds <ul style="list-style-type: none"> 1. Active Shooter iii. Control Bleeding 	<p>Cooperative & Collaborative Learning: Snake Identification</p> <p>Interactive Learning: In-Class Discussion – Sharing of Personal Experiences</p> <p>Experiential Learning: Simulation – Drowning Recovery Position</p> <p>Interactive Learning: In-Class Discussion – Sharing of Personal Experiences</p> <p>Visual-Based Active Learning: YouTube Video: Fishhook Removal</p> <p>SLP: Rape Trauma</p>	<p>Independent Review – N102 Notes of HTN Crisis</p> <p>HealthStream: ALICE Training</p>	<p>Quiz</p>

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
H. Rape Trauma			Community Health Project Presentations Exam #8