

NURSING 101: FOUNDATIONS OF NURSING

UNIT II: THE CLINICAL UNIT – PART II - ADMINISTRATION OF MEDICATIONS:

CLINICAL OBJECTIVES

AT THE COMPLETION OF THIS UNIT, THE STUDENT:

1. Describes the pharmacodynamic and pharmacokinetic properties of medications.
2. Identifies various drug names and what each name represents.
3. Discuss legislation to control drugs and nurse's legal responsibilities in drug administration.
4. Describes the necessary components of a medication order and differentiates between the types of medication orders.
5. Explains individual factors that influence drug actions.
6. Describes the elderly person's altered response to medication therapy.
7. Identifies the various routes for medication administration.
8. Describes resources for medication information.
9. Identifies the "ten rights" of medication administration.
10. Demonstrates knowledge of dosing equivalents to perform drug dosage calculations correctly.
11. Discusses the use of the nursing process throughout medication administration.
12. Discusses the implications of herbal medication use on nursing care.
13. Identifies the purpose(s) and principles of IV therapy.
14. Discusses isotonic, hypotonic, and hypertonic IV solutions, and identifies appropriate uses for each.
15. Demonstrates knowledge of dosage calculation in determining IV flow rates.
16. Demonstrates understanding of correct procedures for initiating, maintaining and monitoring IV therapy.
17. Demonstrates understanding of assessment, prevention and treatment of IV therapy complications.
18. Identifies evidence-based practice/best practice standards related to medication administration.
19. Exhibits accountability when administering medications in all healthcare settings.

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<p>Unit II Part 2: Medications Clinical Hours- 21.5</p> <ul style="list-style-type: none"> I. Introduction to Meds <ul style="list-style-type: none"> a. Drug Categories b. Routes of Administration c. Pharmacokinetics <ul style="list-style-type: none"> i. Absorption ii. Distribution iii. Metabolism iv. Excretion d. Pharmacodynamics <ul style="list-style-type: none"> i. Therapeutic Uses/Monitoring ii. Peak and Trough Levels iii. Drug Half-Life iv. Onset, Peak and Duration v. Adverse Drug Reactions vi. Drug Interactions vii. Drug Toxicity/Tolerance e. Drug Therapy Across the Lifespan <ul style="list-style-type: none"> i. Pregnancy ii. Elderly II. Rights of Safe Medication Administration <ul style="list-style-type: none"> a. Ten Rights b. Look Alike/Sound Alike Medications III. The Medication Prescription <ul style="list-style-type: none"> a. Drug Categories b. Generic vs Trade Name c. MAR d. Components of a Medication Order e. Communication Medication Order f. Types of Medication Orders g. Medication Reconciliation 	<p>Interactive Lecture: Review of journal article “The Radonda Vaught Case”</p> <p>Cooperative Learning: Completion of MS Forms evaluation</p> <p>Cooperative Learning: Components of Med Order/Matching</p>	<p>Clinical Experience</p> <p>ATI Skills Modules 3.0: Concepts of Medication Administration</p> <p>Class Preparation: Pharmacokinetics Review Worksheet</p>	<p>Clinical, Class Preparation, Quiz, Unit Exam</p>

CONTENT/ HOURS	TEACHING STRATEGIES	SUPPORTING ACTIVITIES	EVALUATION METHODS
<ul style="list-style-type: none"> ii. Desired Over Have iii. Dimensional Analysis f. Resources IX. Oral Medications <ul style="list-style-type: none"> a. Advantages/Disadvantages of Oral Route b. Rates of Absorption c. Forms of oral medications d. Nursing Process <ul style="list-style-type: none"> i. Preparation ii. Assessment iii. Implementation e. Clinical judgment scenarios f. Herbal therapies X. Topical Medications <ul style="list-style-type: none"> a. Skin Preparation Procedure b. Ophthalmic Medication Procedure c. Otic Medication Procedure d. Nasal Medication Procedure e. Rectal Suppositories Procedure f. Vaginal Medication Procedure g. Inhaled Medication Procedure XI. Enteral Medications <ul style="list-style-type: none"> a. Assessment b. Preparation c. Procedure d. Clinical Judgment Scenario XII. Parenteral Medications <ul style="list-style-type: none"> a. Equipment <ul style="list-style-type: none"> i. Syringes ii. Needles b. Preventing Needlesticks c. Preparing Parenteral Meds <ul style="list-style-type: none"> i. Withdrawing medications ii. Reconstitution 	<p>Interactive Learning: In class demonstrations of procedures</p> <p>Cooperative Learning: In class oral medication activity</p> <p>Game Based Learning: Kahoot!</p> <p>Experiential Learning: Medication Escape Room</p> <p>Interactive Lecture: NGT med administration scenario</p> <p>Visual Based Learning: Demonstration Videos</p> <p>Cooperative Learning: IM injection case study</p>	<p>EDGT: Math Magic for Meds II</p> <p>Class Preparation: Ophthalmic Medication Administration Case Study</p> <p>ATI: Safe Medication Dosage Modules</p>	<p>Unit Exam</p> <p>Quiz</p> <p>Class Prep</p> <p>Clinical Evaluation</p> <p>IM Competency Labs</p>

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<p>d. Administration of Parenteral Meds</p> <ul style="list-style-type: none"> i. Intradermal Injections ii. Subcutaneous Injections iii. Intramuscular Injections <p>e. Clinical Judgment Scenario</p> <p>XIII. IV Therapy</p> <ul style="list-style-type: none"> a. Purpose and Principles of IV therapy b. Isotonic, hypotonic and hypertonic solutions c. Healthcare Provider's Orders d. IV Infusion Equipment <ul style="list-style-type: none"> i. Solutions ii. IV Catheters iii. Primary Tubing iv. Secondary Tubing v. Labels e. Calculating IV Flow Rates f. Regulating and Monitoring of IV Infusions g. IV Medication Considerations <ul style="list-style-type: none"> i. Compatibility ii. Amount iii. Rate of Administration iv. Dilution v. Supplies, Site, Storage, Stability h. IV Procedures <ul style="list-style-type: none"> i. Priming IV Tubing ii. Primary Infusion iii. Secondary Infusion iv. Y Site Infusion v. Resources vi. Monitoring and Maintaining IV site vii. Flushing a saline lock viii. Replacing IV Solution ix. Discontinuing PIV x. Beebe Healthcare Policies 	<p>Experiential Learning: IM Demonstration Stations Game Based Learning: Kahoot!</p> <p>Visual Based Learning: Isotonic, Hypotonic & Hypertonic Solutions</p> <p>Interactive Lecture: Calculating IV Flow Rates</p> <p>Problem-based Learning: IV Calculations Worksheet</p> <p>Visual Based Learning: Baxter Pump Demonstration Video</p> <p>Cooperative Learning: IV Activities</p> <p>Visual Based Learning: IV</p>	<p>Class Preparation: Amoeba Sisters Video Worksheet</p> <p>EDGT Medication Math Magic</p> <p>ATI: Dosage Calculation and Safe Medication Administration: Parenteral Medications</p>	<p>Unit Exam Quiz Class Prep Clinical Evaluation IV Competency</p>

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<ul style="list-style-type: none"> xi. Documentation i. Complications of IV Therapy <ul style="list-style-type: none"> i. Infiltration ii. Extravasation iii. Phlebitis/ Thrombophlebitis iv. Fluid Overload v. Cellulitis vi. Air Embolus vii. Catheter Embolus viii. Documentation 	<p>procedure demonstration videos</p> <p>Experiential Learning: IV scenarios in simulation lab; IV skills faculty demonstrations</p>		