Covenant School of Nursing
Instructional Module 2 Learning Guide
Topic: Intravenous Therapy
Unit 2

Learning Goals/Outcomes

Upon completion of this lesson, you will be able to:

- Discuss techniques for preventing complications of IV therapy
- Discuss the proper order of draw to minimize risk of erroneous results
- Identify and understand different uses of types of IV fluids
- Identify the body's means of achieving and maintaining homeostasis
- Discuss and select appropriate veins for intravenous cannulation
- Discuss proper equipment and technique for intravenous cannulation
- Discuss proper administration technique for IV fluid and IV medication
- Implement Universal competencies during administration of intravenous medications

Pre-Class Preparation

Required:

- Lewis MedSurg Textbook: Pages on *Intravenous Therapy*; and associated skills (pp. 290-292, 292b
- NII
  - IV Catheter Insertion (pg 48-49)
  - Converting a Continuous Infusion to an INT (pg 50)
  - Pump Use with Primary Intravenous Infusions (pg 51-52)
  - IV Push Medication Administration (pg 66-67)
  - IVPB Medication Administration via Gravity to a Peripheral INT (68-69)
  - IVPB Medication Administration via Infusion Pump (70-71)
- HESI Comprehensive Review for the NCLEX textbook: Pages on *Intravenous Therapy* (pp. 49-66)

Additional Resources (Optional):

- Gahart's Intravenous Medications
- MAUDE Adverse Event Report: PREFILLED SALINE FLUSH SYRINGE
  MAUDE Adverse Event Report: NURSE ASSIST, INC. NURSE ASSIST; NORMAL SALINE FLUSH SYRINGE (fda.gov)
- ISMP for safe medication administration http://www.ismp.org/tools/
- TJC Hospital National Patient Safety Goals
  https://www.jointcommission.org/assets/1/6/2018_HAP_NPSG_goals_final.pdf
- ISMP Safe Practice Guidelines for Adult IV Push Medications
  http://www.ismp.org/Tools/guidelines/ivsummitpush/ivpushmedguidelines.pdf

Classroom Activities:

- Theory content
- Hands-on with equipment
- Plickers participation

Laboratory/Clinical Activities:

- Calculate and administer intravenous medications correctly in both simulation and clinical situations
- Perform peripheral IV access on a simulated patient and a hospitalized patient (if available)
- Discontinue peripheral IV access on a simulated patient and a hospitalized patient (if available)

Out of Class Work:

- HESI –See HESI Assignments form: Essential Collection: Clinical Skills: Performing Venipuncture, Preparing an Infusion Site, Troubleshooting Intravenous Infusion, Troubleshooting Vascular Access Device (CVAD), Using an Infusion Pump, Changing Intravenous Tubing and Fluids, Changing Intravenous Dressings, Discontinuing Intravenous Therapy, Regulating an Intravenous Infusion, Administering Medications by IV Bolus,

Administering IV Medications by Piggyback – focus on the extended texts, demos, and take the tests • HESI Drug Calculations Online – Module 10: Intravenous Preparations with Clinical Applications
Evaluation Methods
• Observation by faculty in clinical setting • Simulation observation • Unit 2 Exam • Professional Skills Videos • Graded CPEs

Texas DECs	***QSEN Competencies***
Knowledge: I A 1, 2, 4, 1 B 1a, 3, 7a, b & c; II C 2a, II D 1a, b, & c, II E 12; III A 4, III B 1a & 4; III C 2, IV E 3 Clinical Judgments and Behaviors: I A 1, 2, 3b; 1 B 2a, 3a & b, I B 4a, 5c; II D 2c, II E 11, II F 1a & 5a, III B 2, 3a, 3b, 3c, 4, & 5, IV E 4	EBP, Safety, Informatics, PCC
Graduate Competencies / Student Learning Outcomes	***NCLEX Test Plan***
1, 2, 3, 4, 5, 7, 8	**Safety and Effective Care**: Safety and Infection Control **Psychosocial Integrity**: Therapeutic Communication **Physiological Integrity:** Pharmacological and Parenteral Therapies, Reduction of Risk Potential
Concepts	***Faculty***
Professional Nursing: *Clinical Judgment, Communication, Professionalism, Ethics and Legal precepts* ***Professional Nursing Concepts:*** *Evidence-based practice; Safety, Health Information technology, Patient-centered care*	*Corbin Moreno, MSN, RN-BC*
Date originated: 11/29/15	***Revision Date: 04/2021, 03/2022, 10/2023, 3/25/24***