GUIDE

College Laboratory Nursing II: Fundamentals

57102

Spring, 2007 Week 1

PROMOTION OF FLUID BALANCE

PART I

I. <u>BEHAVIORAL OBJECTIVES</u>:

At the completion of this unit, the student will be able to:

- 1. assess the nursing care needs of the client receiving IV therapy.
- identify selected nursing diagnoses and expected outcome for the client receiving IV therapy.
- 3. plan expected outcomes for the client receiving IV therapy.
- 4. perform selected nursing interventions R/T the care of the client receiving IV therapy.
 - a. change an intravenous container without changing the tubing.
 - b. calculate IV flow rate.
 - c. calculate LIB and amount absorbed.
 - d. set up, program and use IV pump.
- 5. evaluate the effectiveness of stated outcomes.

II. <u>ACTIVITIES</u>:

Activity 1 (20 minutes)

- 1. Orientation to Nursing II college laboratory.
- 2. Review of ground rules and skill performance evaluation.

Activity 2 (25 minutes)

1. View CD - Administering IV Fluid Therapy (Mosby 2003)

Activity 3

- 1. Assessments (60 minutes)
 - a. The instructor will review:
 - (1) preparing an intravenous solution with macro drip tubing
 - (2) computing flow rate
 - (3) changing an IV bag when empty
 - b. View CD Alaris Medical Systems Gemini PC 2 TX infusion system
 - (1) Instructor will guide students in use of pump

2. Data Analysis

Identification of a common nursing diagnosis and expected outcome for the client receiving IV therapy.

(1) Risk for infection R/T interruption of skin integrity.

3. Expected Outcome

(1) Client remains free of infection as evidenced by VS WNL during invasive therapy.

4. Nursing Interventions (45 minutes total)

- a. Students will demonstrate:
 - (1) using the skill performance evaluation as a guide, setting up the equipment for primary IV administration set
 - (2) regulating the flow rate for primary administration set
 - (3) changing an IV bag when empty
 - (4) programming and using an IV pump
- b. Compute IV flow rates.
 - (1) Students can take home and complete the math exercises for computing the flow of an IV.
 - c. Students will document care of the client receiving IV therapy.
 - (1) Include the following:
 - A Location and status of IV site, dressing, fluids and tubing. Size and type of catheter/needle. Reports of pain.
 - I IV site care rendered, tubing, IV fluid or catheter changes. Client teaching.
 - E Continued patency and infusion of IV therapy. Client tolerance to care. Client demonstration of previous teaching.
 - (2) Sample

DATE TIME IV of 1000 cc's D5W; infusing at Rt. lower arm @ 125 cc/hr. #20 Jelco present.

IV tubing changed and site care given.

Site clean _s swelling or redness. o c/o pain.

Reinforced teaching regarding mobility limitations; understanding demonstrated.

Sign with title

d. Student will document IV solution infused on I&O sheet.

5. Evaluation

(1) No signs or symptoms of infection present.

Activity 4

NOTE: ADMINISTERING MEDICATIONS VIA NG TUBE, INTRAVENOUS PIGGYBACK MEDICATIONS, DRESSING CHANGE, AND URINARY CATHETERIZATION ARE SKILLS TO BE EVALUATED. THE SKILL PERFORMANCE EVALUATION SHEETS ARE IN THIS GUIDE.

READING REFERENCES:

Unless otherwise stated, all readings for the multisensory laboratory are from Evans - Smith, <u>Taylor's Clinical Nursing Skills</u>, 2005.

Week 1

Skill Technique Review:

Intravenous Therapy, Chapter 15, p. 629 - 632; 641 - 651, Omit IV calculations on p. 635.

Daniels & Smith, <u>Clinical Calculations - A Unified Approach</u>, 5th Edition, Chapter 10, "Calculations of Intravenous Medications and Solutions," p. 146-152 and p. 159 - 167.

REMINDER: BRING YOUR PRACTICE KIT TO WEEKS 2 AND 3 COLLEGE LABS.