MASTER SYLLABUS

COURSE NO., HOURS AND TITLE: PTH 123b-1 Physical Agents I Application

COURSE DESCRIPTION: Students will be able to describe the theories and physiological effects of physical therapy interventions such as superficial and deep heat, cryotherapy, hydrotherapy, massage and laser therapy.

COREQUISITES: PTH 123B

PREREQUISITE TO: PTH 233A, 233B, 321A, 321B

COURSE OBJECTIVES:

Upon successful completion of this course, the student will be able to discuss, explain, and identify selected components of interventions identified in the plan of care established by the physical therapist as determined by practical examination and completion of skills check offs. These include:

1. Demonstrate the ability to prepare patients for interventions in supine, prone, and side-lying positions providing proper draping, support, comfort, and good alignment.

2. Demonstrate the ability to measure the response to heat or cold treatment by pre and post treatment observation and measurement of: respiratory rate, pulse rate, blood pressure, color of body part, palpated temperature of body part, local and/or general perspiration, skin turgor, and capillary refill.

3. Demonstrate the ability to provide adequate explanations to patients (student lab partner) prior to, during, and following the application of the physical agent.

4. Demonstrate the ability to correctly name, describe, and prepare each modality and/or intervention which in this course includes massage, conductive heat, hydrotherapy, fluidotherapy, ultrasound, infrared, ultraviolet, diathermy, laser, and cryotherapy by:
   a. identifying and correctly describing the modalities' characteristics, indications, contraindications, precautions, safety considerations and safety requirements.
   b. describing accurately the requirements, idiosyncrasies and contraindications of the different body areas and medical conditions
   c. preparing the treatment area for proper patient positioning and draping.

5. Correctly and safely applying the intervention by:
   a. identifying and manipulating all controls and switches
   b. performing all operations in correct sequence
   c. establishing, monitoring, and varying dosage according to patient tolerance and that are appropriate to the modality, the patient's condition and treatment goals
   d. describing and applying the safety and comfort rules
e. describing, applying and manipulating the time, distance, and intensity rules.

f. recognizing and responding to objective and/or subjective patient responses to therapeutic heat and cold 100% of the time.

g. correctly implementing modification(s) within the plan of care.

6. Demonstrate the ability to correctly problem solve when given a patient scenario.

7. Demonstrate appropriate time management skills during simulated patient scenarios.

8. Demonstrate the ability to implement basis skills in sterile techniques for wound care by:
   a. Performing sterile gowning and gloving techniques.
   b. Identifying universal precautions and sources of potential infection.

9. Demonstrate the ability to obtain and measure vital signs by:
   a. Identifying the basic physiology, characteristics and normal values of pulse, blood pressure, and respiration.
   b. Identifying factors which influence vital signs and their implications.
   c. Demonstrate basic competency in monitoring vital signs.

TOPICAL OUTLINE:

Lab Activities

I. Patient positioning and draping 5%
II. Application of hot packs 10%
III. Application of paraffin 10%
IV. Application of whirlpool/fluidotherapy 10%
V. Performance of massage 15%
VI. Application of ultrasound 10%
VII. Application of diathermy 10%
VIII. Application of cryotherapy 10%
IX. Infrared/ultraviolet 5%
X. Anodyne/laser 5%
XI. Sterile Technique 5%
XII. Vital Signs 5%

TEXTBOOK:

Required:

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