Fall 9-1-2001

PT 483.01: Measurement and Modalities Laboratory

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Office Hours: by appointment (individual or groups)

Modality Section Lab Assistant:
Scott Richter, M.S.

- Credits: PT 482 (3 units), PT 483 (1 unit)
- Lecture Times: Wednesday and Friday- 8:10 to 10:00 AM
- Laboratory Times: Monday - 8:10 to 10:00 AM (All students)

Laboratory Attire:
Men and women must wear loose shorts and women must wear an appropriate bra, sports bra or the upper portion of a two piece swimsuit (one piece swimsuits are not acceptable). Sweats may be worn during lab when not acting as the client.

Required Textbooks:
Philadelphia, PA: W.B. Saunders, Co.


Suggested Alternative Textbook:

Supplemental Readings:
Selected readings will either be available in required text from another course or a master copy will be placed in a binder in the student area.

Unit Description:
Physiology, indications, contraindications, and methods of applying physical agents including, but not limited to superficial heat and cold, ultrasound, electromagnetic radiation, and mechanical traction.

Unit Objectives:
To be handed out separately.

Unit Evaluation:
PT 482
Comprehensive Written Unit Examination 100 points
3 - Lecture Quizzes 30 points
Research Article Presentation (P.T. only) 20 points

PT 483
Practical Exam (P.T. only) 100 points
4 - Lab Quizzes 40 points

**Exam and quizzes will cover lecture, lab, and assigned readings**

Research Article Assignment and Presentation (P.T. only):

This assignment is being done in conjunction with Dr. Gajdosik's "Introduction to Professional Literature" section of PT 503. This assignment will require that each student find a recent (within the last five years) research article (no descriptive or review of literature review) from a peer reviewed journal. The selected article must deal with the effectiveness and/or the clinical application of a modality discussed in class. If you have any questions please see Professor Laskin. The written component of this exercise will be dealt with in PT 503 by Professor Gajdosik.

Each student must review a different article. We will use a first come first served approach - in other words I will have a list posted on the bulletin board across from my office. When you have selected an article please come and put the details on the list. I would suggest that when you do your literature search you select several potential articles. A copy of the selected article must be handed in to Professor Laskin's mail box by 4:00 PM - Friday, September 29, 2000.

On Wednesday, October 18, 2000 the class will be divided into a number of small research presentation groups. Each student will have 10 minutes (7 minutes for the
presentation and 3 minutes for questions) to present their research article assignment to
their assigned research group. The presentation will be comprised of the following
components: purpose of the study, methodology, results, and most importantly focus on
the clinical relevance and the clinical application of the results. For each presentation a
student within the group will be assigned to ask the initial question(s) and will be
responsible to have read the article being presented prior to the presentation. Each small
group will have a faculty member present and along with the rest of the student audience
they will assess the presenters performance based primarily on the following criteria:

1) Clarity of the presentation (5 points)
   - appropriate language
   - clarity of speaking voice
   - quality of AV and handout

2) Quality of the presentation (15 points)
   - logical and concise presentation of material
   - addressed each of the required components
   - appropriate responses to questions
   - adherence to the time limit

Practical Examination (P.T. only):

The practical examinations for this course will be conducted during the week of October
23, 2000. The requirements, format, and other details will be forthcoming. This practical
exam is primarily to assess your skills, although specific questions to assess your
knowledge regarding rationale and indications/contraindications are also addressed. The
content of this practical exam includes both the material covered in the "Modalities"
section of PT 482/483 and the components of draping, gait, transfers, and assistive
devices from PT 516/517.

Proposed Unit Schedule:
W-Sep 6  Unit I - Introduction, Research Assignment, and Vitals Signs,
Cameron - Chapter 1
O'Sullivan - Chapter 4

F-Sep 8  Vital Signs, Safety, and Pain (mechanisms and measurement)
Cameron - Chapter 3

M-Sep 11  Lab: Vital Signs

W-Sep 13  Inflammation & Tissue Repair and Documentation
Cameron - Chapter 2

F-Sep 15  Thermal Agents: Superficial Heat
Cameron - Chapter 6

M-Sep 18  Lab: Application of Hot & Cold

W-Sep 20  Thermal Agents: Superficial Heat & Cryotherapy
Cameron - Chapter 6

F-Sep 22  Thermal Agents: Cryotherapy
Cameron - Chapter 6

M-Sep 25  Lab: Application of Hot & Cold

W-Sep 27  Therapeutic Ultrasound
Cameron - Chapter 9

F-Sep 29  Therapeutic Ultrasound
Cameron - Chapter 9
Research Article Due

M-Oct 2  Lab: Therapeutic Ultrasound

W-Oct 4  Mechanical Traction
Cameron - Chapter 8

F-Oct 6  Hydrotherapy and Electromagnetic Radiation
Cameron - Chapter 7 & 10

M-Oct 9  Lab: Therapeutic Ultrasound

W-Oct 11  Electromagnetic Radiation
Cameron - Chapter 10

F-Oct 13  Clinical Decision Making - The Selection of the Ideal Physical Agent
          O'Sullivan - Chapter 1
          Cameron - Chapter 12

M-Oct 16  Lab: Review

W-Oct 18  Small Group Research Presentations

F-Oct 20  Modalities Written Exam