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PT 483.01: Measurement and Modalities Laboratory

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PT 482/483 - Fall 2001

Measurement and Modalities - Unit I (Physical Agents)

Course Coordinator:

James Laskin, M.S., P.T., Ph.D. (candidate)

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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:

Cameron, M.H. (1999). *Physical agents in rehabilitation*.
Philadelphia, PA: W.B. Saunders, Co.

O'Sullivan, S. B. & Schmitz, T. J. (2000). *Physical Rehabilitation: Assessment and treatment* (4th ed.). Philadelphia, PA: F. A. Davis, Co.

Suggested Alternative Textbook:

Hayes, K.W. (2000). *Manual for Physical Agents* (5th ed.). Upper Saddle River, NJ: Prentice Hall Health.

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