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PT 595.01: Applied Clinical Anatomy & Kinesiology Teaching

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PT 595 - APPLIED CLINICAL ANATOMY & KINESIOLOGY TEACHING
(Fall, 2001)

- I. **Credits:** 2 Clock Hours: 4 each week
Prereq., PT 464, 465, 536, 537
- II. **Class Meets:** Tuesday: 10:10-12:00,
Thursday: 1:10- 4:00
Presentations: Each of the 3 students will present 6 Palpation
Demonstrations (10 min each) in Tuesday labs, and
8 Cadaver Orientations (10 min each) in Thursday Labs.
- III. **Professor:** Rich Gajdosik, Work - 243-5183/4753, Home - 251-0266
(Please feel free to call for help in the lab)
- IV. **Course Description:** Teaching experience in practical application of clinical anatomy and kinesiology. Students present palpation orientation to salient body regions and briefly discuss applied clinical anatomy and kinesiology, and present orientation to the applied clinical anatomy of key body regions in the Cadaver Anatomy Laboratory. Students also provide teaching assistance in surface anatomy, basic muscle testing, functional analysis of movement, applied clinical anatomy, radiology, cadaver prosections, and maintaining organized, clean and neat laboratories.
- V. **Required Textbooks and Materials:**
- PT 465 Lab Manual (Revised Fall, 2000): Purchased at University Book Store
- Colborn GL, Lause DB: Musculoskeletal Anatomy; A Text and Guide for Dissection for Students in the Allied Health Sciences. The Parthenon Publishing Group, New York, 1993
- Gross Anatomy Textbooks (Moore's Clinical Anatomy & Brunnstrom's Clinical Kinesiology)
- Gross Anatomy Atlas by Netter
- A long white clean laboratory coat:** Please wash weekly
- Tools: Erasable marking pen, tweezers, probe, rubber gloves
- VI. **Evaluation Procedures:** Grades determined by the instructor's evaluation of the quality of oral and practical presentations (including clarity of thought and communication, and organization. Grading will be A, B, C, F.
- VII. **Teaching Methods and Learning Experiences:** Students sign-up for presentations at the beginning of the semester. All presentations will be reviewed for content by the instructor prior to delivery. Constructive feedback will follow each presentation.

Course Schedule for Tuesday 10:10-12:00 Laboratory

Week Number (Dates) and Demonstration Sign-up

- | | |
|-------------|--|
| 1 (Sept 4) | Introduction to Course & Radiology |
| 2 (Sept 11) | Spinal Column and Musculature (B & VC I)

1) Palpating the cervical spine: _____
2) Palpating the lumbar spine: _____ |
| 3 (Sept 18) | Vertebral Canal and Contents (B & VC II)

1) Mini Lecture on CNS & PNS: <u>Rich</u> |
| 4 (Sept 25) | Thoracic Cage and Pectoral Region, The Anterior Abdominal Wall

1) Finding the coracoid process: _____
2) Separating movements of humerus and scapula: _____ |
| 5 (Oct 2) | Axilla, Shoulder Girdle, Shoulder Muscles, Associated Nerves (UL I & II)

1) Movements of the clavicle: _____
2) Finding the brachial plexus in the posterior triangle: _____
3) Identifying the teres major and teres minor muscles: _____ |
| 6 (Oct 9) | Flexor and Extensor Compartments of Arm, Shoulder Joint (UL III)

1) Finding the lesser tuberosity, intertubercular groove & greater tuberosity: _____ |
| 7 (Oct 16) | Flexor Surface of Forearm and Hand (UL IV)

1) Palpating the elbow and related structures: _____
2) Finding the pronator teres muscle: _____ |
| 8 (Oct 23) | MIDTERM RADIOLOGY EXAM (1 st hr.),
PALPATION EXAMS (Scheduled outside of class time)
Lab Second hour: Palm (UL V)

1) Palpating the carpal bones: _____ |
| 9 (Oct 30) | Extensor Surface of Forearm and Hand: Joints of Elbow, Wrist, Hand (UL VI)

1) Palpating the long tendons of the thumb: _____ |

- 10 (Nov 6) Pelvis Osteology and Applied Clinical Anatomy: Anterior, Lateral, and Medial Aspects of Thigh (Pelvis & LL I)
- 1) Reconstructing the ligaments of the pelvis:** _____
2) Palpating the tensor fascia lata muscle & iliotibial band: _____
- 11 (Nov 13) Gluteal Region, Hip, Posterior Thigh, Popliteal Fossa, Posterior Compartment of Leg and the Knee Joint (LL II & III)
- 1) Palpating the greater trochanter:** _____
2) Functions of the hip abductors: _____
3) Palpating the menisci, collateral ligaments & knee flexor tendons: _____
- 12 (Nov 20) Anterior and Lateral Compartment of Leg, Dorsal Surface of Foot (LL IV)
- 1) Palpating the tibialis anterior muscle & functions:** _____
- 13 (Nov 27) Plantar Surface of Foot, Ankle Joint (LL V)
- 1) Palpating the medial aspect of the foot and ankle:** _____
- 14 (Dec 4) Muscles of facial expression & Cranium
- 15 (Dec 11) Cranium cont. & Cranial Nerves
NOTE: Palpation/Practical Exams Start this week

PT 595: Anatomy and Kinesiology Teaching
CADAVER PRESENTATIONS SIGN-UP SHEET
(Fall Semester, 2001)

Students attend 2 hours each week on Thursday from 1:10-4:00 pm.

Week Number, Date & Times

Student Names

1) Sep 6: Students attend at least one, one hour orientation session

2) Sept 13: Two students

3) Sept 20: Two students

4) Sept 27: Two students

5) Oct 4: Two students

6) Oct 11: Two students

7) Oct 18: Two students

8) Oct 25: Two students

9) Nov 1: Two students

10) Nov 8: Two students

11) Nov 15: Two students

12) Nov 29: Two students

13) Dec 6 : Two students

14) Dec 13: Two students