

Syllabus
Texas Chiropractic College
Division of Clinical Sciences
Department of Diagnostic Imaging
Imaging Interpretation-Appendicular Focus
DI-5433
Spring 2012

Lecture: M-11:00-11:54, W-1:00-1:54; Th-11:00-11:54

Contact Information:

Faculty: Lawrence H. Wyatt, DC, DACBR, FICC, Professor of Clinical Practices and Radiology
Jeff Thompson, DC, DACBR(laboratory only)
Brian Batenchuck, DC, DACBR(laboratory only)

Office: Iwama: Room #225

Office Hours(By Appointment Only): M-9:00-10:00; W- 9:00-10:00, 3:00-4:00; Th-8:00-9:00, 12:00-1:00

E-mail: tcethics@gmail.com

Credit: 4.5 credits; 90 hours (Lecture 3 hrs, Lab 3 hrs)

TEXTBOOKS AND MATERIALS:

Required Texts:

Essentials of Skeletal Radiology(ESK), (3rd Edition), Yochum & Rowe. Lippincott, Williams and Wilkins, July 2004

Orthopedic Radiology- A Practical Approach(OR), (5th Edition), Greenspan. Lippincott Williams & Wilkins; October 2010

Differential Diagnosis of Neuromusculoskeletal Disorders(DDND), (1st Edition), Wyatt. Jones & Bartlett Learning, January 1994

Handbook of Clinical Chiropractic Care(HCCC), (2nd Edition), Wyatt. Jones and Bartlett Learning. September 2004.

Recommended Texts and Reading:

Skeletal Radiology: The Bare Bones, (2nd Ed.) Chew. Lippincott Williams & Wilkins. April 2010

Skeletal Imaging: Atlas of the Spine and Extremities, Taylor, Hughes & Resnick. Saunders; 2 edition December 9, 2009

Materials:

Penlight or small light source for lectures.

Email and Internet access

Course Description:

X-ray findings associated with the basic categories of skeletal pathology are presented in categorical fashion, including arthritides, trauma, infection, vascular diseases, neoplasm and endocrine/metabolic disorders. The fundamentals of radiographic differential diagnosis are presented in lectures centered around projected diagnostic images and further reinforced with small group instruction at the viewbox during lab sessions.

Prerequisites: Introduction to Imaging Interpretation

Learning Outcomes:

1. Demonstrate the role and applicability of diagnostic imaging studies in establishing an accurate diagnosis for patients presenting with common musculoskeletal and/or neurological complaints.
2. Recognize and understand the significance of imaging findings that may assist in establishing diagnosis, prognosis, progression of disease as a measure of response to treatment, or that otherwise may have a significant impact on case management.
3. Demonstrate application and integration of advanced imaging procedure findings in the diagnosis of musculoskeletal and/or neurological conditions common in chiropractic practice.

Learning Objectives:

Upon completion of the course, the successful student will be able to:

1. Identify, on slides and on plain film radiographs, the typical findings of those pathologic conditions of the appendicular skeleton presented in class.
2. Identify those diseases discussed in class on slides and plain film radiographs.
3. Identify common advanced imaging findings of the pathologies discussed in class, specifically as they relate to the plain film findings of the same condition(s).
4. Correlate a patient's clinical findings with imaging findings for those pathologic conditions presented in class and formulate and list a differential diagnosis based on those correlations.
5. Accurately recall normal radiographic findings and variants as presented in previous classes and be able to differentiate them from pathology.
6. Utilize a repeatable search pattern approach to the interpretation of plain film radiographs of the appendicular skeleton.
7. Accurately recall the strengths and shortcomings of different imaging modalities in order to more skillfully order those procedures that will have the greatest cost effectiveness.
8. Interpret selected diagnostic imaging studies (primarily plain film musculoskeletal radiographs and MRI), integrating key imaging findings to determine a likely diagnosis and/or construct a reasonable limited differential diagnosis.

9. Recall and identify significant clinical and diagnostic imaging features of those pathological conditions discussed in class when such are presented in the form of written, multiple choice questions or diagnostic images.

10. List the strengths and shortcomings of different imaging modalities in order to more effectively order those procedures.

Clinical Competencies:

History-taking, general physical examination, neuromusculoskeletal examination, diagnostic imaging, diagnosis, diagnostic studies, case management, chiropractic spinal adjustment/manipulation, record-keeping, professional issues, ethics and integrity, wellness

Lecture:

Lecture will be combinations of slide presentations (PowerPoint), lectures and open forum reviews of radiological studies. The Socratic method of teaching is utilized. Thus, class participation is mandatory and will be given consideration during student evaluations. Please be sure to always bring a pen light for taking notes since it is dark during slide presentations.

Laboratory:

Lab sessions are held in the Lab Building in the Radiology Learning Resource Center and are focused on the accurate interpretation of plain film radiographs with consideration given to advanced imaging.

Student Responsibilities:

Participation:

Students are expected to actively participate in classroom, small group and laboratory discussions. Students are strongly encouraged to voice their opinions, based on sound reasoning, logic and scientific inquiry.

Homework:

Students may periodically given assignments/case studies on Edvance 360. These assignments will be graded and will factor into the students final course grade. Further instructions will be made available on Edvance 360.

Daily Responsibilities:

Students are expected to come to class prepared, having read any assignments prior to class.

Quizzes/Exams:

There will be three written/practical examinations in this class, where students will be expected accurately interpret both plain film and advanced imaging of the conditions presented in class from slides. Written

questions assessing the student's knowledge of the written material presented in class will also be administered.

These examinations may consist of multiple choice(MC), extended matching(EM) and short answer(SA) questions. The intraterm examinations will be worth 100 points and the final examination will be worth 200 points. Each examination is comprehensive. Quizzes will be administered periodically to ensure that students are keeping up with required material/assignments. Such quizzes will be unannounced, will be multiple choice format and be worth 10 points each.

Course Content and Outline:

Important Dates:

Holidays (classes canceled)

Monday, January 16 - Martin Luther King Jr. Day

Monday, February 20 - President's Day

Friday, April 6 - Good Friday

Please note that Spring Break will be Monday, March 12 through Friday, March 16.

Other Important Dates

Friday, January 20 - last day to add/drop courses

Friday, March 2 - last day to withdraw from a course

March 16-18 - NBCE Exams on campus

April 9-13 is lab finals week.

Friday, April 13 is the last day of classes.

Monday, April 16 is student study day - no classes

Lecture Finals are Tuesday, April 17th - Tuesday, April 24th

Saturday, April 21st - Commencement Exercises

Wednesday, April 25 - Make-up Date for Overlapping Final Exams

Thursday, April 26 - All grades are due in the registrar's office by noon

Major Topics: The following is a tentative course outline by weeks. The schedule may vary as dictated by class discussions, school events, holidays and acts of God. Reading assignments in Greenspan or Yochum and Rowe are listed after each week. **Chapters from the *Differential Diagnosis of Neuromusculoskeletal Disorders* textbook that apply to these topics are chapters 3, 5 and 7 and they are also required reading, as are chapters 10, 12, 13, 14 and 18 from the *Handbook of Clinical Chiropractic Care* and any other reading assignments as determined by the professor.**

Week	Topic	Greenspan	Yochum & Rowe
1	Introduction to Skeletal Imaging	Ch. 1	Ch. 9
2	Skeletal Trauma	Ch. 4	Ch. 9
3	Skeletal Trauma	Ch. 4	Ch. 9
4	Skeletal Trauma	Ch. 4	Ch. 9
5	Arthritides	Ch. 12-15	Ch. 10
6	Arthritides	Ch. 12-15	Ch. 10

7	Arthritides	Ch. 12-15	Ch. 10
8	Skeletal Tumors	Ch. 16-23	Ch. 11
9	Skeletal Tumors	Ch. 16-23	Ch. 11
10	Skeletal Tumors	Ch. 16-23	Ch. 11
11	NME	Ch. 26-30	Ch. 14
12	Hematologic/Infection	Ch. 24-25	Ch. 12, 13
13	Congenital/Hereditary	Ch. 31-33	Ch. 8
14	Course Review		

Due Dates for Assignments, Exams, etc.:

Any assignments made in class will be due at times specified by the professor. The intra-term examinations will be scheduled at least two weeks in advance to give the student adequate preparation time.

Grade Method and Scale:

Written/practical intra-term and final examinations will be administered. These examinations may consist of multiple choice(MC) and extended matching(EM) and questions. The intra-term examinations will be worth 100 points and the final examination will be worth 200 points. All examinations are comprehensive. Lecture quizzes are given at the professors discretion and will be worth 10 points each. Lab quizzes are given at the lab professors discretion. Points assigned are also at their discretion.

Assessment Format:

Lecture quizzes(each)	MC	10 points(each)(potential points)
Intraterm written examinations(2)	MC, EM, SA	100 points(each)
Final written examination	MC, EM, SA	200 points
Quizzes		36 or more points
Total possible		436+ points

Grading Scale:

90-100 %	A
80-89%	B
70.0-79%	C
69.99%-below	F

Resources:

Web-based:

Edvance 360 <http://www.edvance360.com/txchiro>

Spine Docs Online <http://www.spinedocsonline.com>

Essential Policy Information:

Academic Integrity:

The doctor of chiropractic must in all aspects of professional conduct demonstrate such honesty, integrity and personal responsibility that the patient who places his or her health in the care of this doctor may do so with absolute confidence that no chicanery, deception, incompetence or other unethical practice will jeopardize his or her well being or appreciation of chiropractic principles. Likewise, the student of chiropractic should possess such a respect for self, colleagues, faculty, future patients and the scholastic material itself that no academic dishonesty or misrepresentation of any kind is ever entertained as an option.

Learning depends on honesty and trust among students and faculty. Trust and integrity cannot exist in the face of academic dishonesty. Apathy or acquiescence in the presence of academic dishonesty is not a neutral act-- failure to confront and deter it will reinforce, perpetuate, and enlarge the scope of such misconduct. Academic dishonesty is the most corrosive force in the academic life of an institution.

It is a proper function of the College to facilitate the student's development of an attitude of strict academic integrity.

Truthfulness is also fundamental to the learning process. Academic dishonesty degrades the learning process; it depreciates the meaning of grades; it diminishes achievements of individuals. In an institution which has no academic integrity, the value of its degrees and the claims of its research achievements are bogus.

Texas Chiropractic College joins other universities in affirming that honesty, truthfulness, trust, fairness, respect, moral conduct, and individual responsibility form the pillars of academic integrity. These ideals guide the conduct of the institutional community. They are critical to a community that values academic achievement. Cultivating integrity in the academy aids the lifelong pursuit of integrity. Commitment to integrity develops in each of us the will to make difficult choices, to accept responsibility for our actions and their consequences, even at great personal cost.

Towards this end, each student will be required to sign and comply with the following statement, which will be attached as a cover page to each examination administered in this class. To wit:

"I pledge on my honor that I will not violate Texas Chiropractic College's Rules and Regulation in connection with any examination or assignment administered in this class."

Attendance p. 28 Student Handbook:

Regular and punctual attendance at all scheduled classes and laboratories is expected. A student is subject to academic penalty if absences exceed ten percent. Absences exceeding twenty percent subject a student to dismissal from a course with a grade of WF. Three (3) incidences of tardiness may constitute an absence. If justifiable cause can be shown for the absenteeism, the student may be permitted to make up missed assignments and maintain enrollment in the class. The hours from these periods will be added to the student's clinic requirements. Students who register late will have the 10/20% rule calculated based upon the number of potential classes available AFTER the registration date.

Examinations

Students must notify faculty before missing any examination.

Intra-term Exams

Students are expected to take intra-term examinations at their scheduled times. Students must notify faculty before missing any examination. If an examination is missed for good and sufficient reason and the student has notified the faculty member in advance, a make-up examination may be given subject to a fee of \$40.00. The fee for the make-up examination is a minimum of \$75.00 if a standardized patient is required for the exam. Additional required standardized patient hours may increase this \$75.00 minimum fee. All intra-term examinations must be made up prior to final examinations. A student may be allowed a maximum of two missed examination dates for good and sufficient reason per trimester. These two missed examination dates are for all enrolled courses in a trimester, not for each individual course. Any request for additional make-up examinations will require documentation substantiating the absence and must be approved by the Dean of Academic Affairs.

Incomplete Intra-term Exams & Assignments

Course assignments and examinations must be completed prior to the final examination in that course. Assignments and examinations not completed receive a grade of zero.

Final Exams

Final exams are to be taken at the scheduled time. Students must notify faculty before missing any examination. If an examination is missed for good and sufficient reason and the student has notified the faculty member in advance, a make-up examination may be given subject to a fee of \$40.00. The fee for the make-up examination is a minimum of \$75.00 if a standardized patient is required for the exam. Additional required standardized patient hours may increase this \$75.00 minimum fee. Missed final examinations must be made up within the first week of the next trimester. A student may be allowed a maximum of two missed examination dates for good and sufficient reason per trimester. These two missed examination dates are for all enrolled courses in a trimester, not for each individual course. Any request for additional make-up examinations will require documentation substantiating the absence and must be approved by the Dean of Academic Affairs.

Incomplete Final Course Grade

An incomplete grade is given only if the final examination is missed due to good and sufficient reasons. The incomplete grade must be corrected within the first week of the next trimester. If not so corrected, this grade becomes a failure.

Financial Aid may be withheld from a student until all incompletes are resolved.

Cellular Phones and Pagers:

Electronic communication devices are to be turned off or placed in silent mode when entering the classroom. The use of cellular phones and pagers set to normal audible tones in the classroom is unacceptable. No student may accept any telephone call or page while in class, except for emergency situations as previously approved by the professor before class begins. This will benefit the learning

environment for you, your fellow classmates, and instructors. If a call/page is accepted or an audible tone is heard by the professor, the student will be excused from class and counted absent on the first incident. Any further incidents will be reported to the Dean of Academic Affairs for disciplinary action.

Guidance and Counseling:

The Guidance and Counseling Department is prepared to confidentially assist students, faculty, and staff with personal, relationship, and academic mental health-related issues. With appropriate documentation, the Director of Guidance and Counseling coordinates academic-related special needs with instructors.

Note: Other important policies can be obtained from the current edition of the Student Handbook.

The author reserves the right to make changes to the syllabus for the good of the order. Notifications of such changes will be made verbally and in writing.

LHW 12/2011

TEXAS CHIROPRACTIC COLLEGE
STUDENT HONOR CODE ACKNOWLEDGEMENT

Student Name: _____ Date: ____/____/____

Professor: Lawrence H. Wyatt, DC, DACBR, FICC

Class: Imaging Interpretation-Appendicular Focus

“I pledge on my honor that I will not violate Texas Chiropractic College’s Rules and Regulations in connection with any examination or assignment in this class.”

Signature: _____