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## PT 525.01: Clinical Medicine III

Jennifer J. Bell

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University of Montana  
School of Physical Therapy  
PT 525 Clinical Medicine III  
Autumn 2014, Professional Year II  
2 Credits

**Course Coordinator:**

Jennifer Jeffrey Bell, PT, ScD, COMT  
SB 215B

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Office Hours (subject to change): Mondays from 3:10-4:00pm by appt; Please arrange appointments through email.

**Course Meeting Times:**

Wednesdays 1:10 PM -3:00 PM SB 114

Friday 1:10 PM -3:00 PM SB 114

**Course Description:** Pathology, evaluation, differential screening, pharmacology, and management of hepatological, oncological, and immunological pathology.

**Purpose:** To provide students with an understanding of the etiology of medical problems of the hematological, oncological and immunological systems. A focus will be on the medical and pharmacological management used in the treatment of diseases commonly encountered in patients managed by a physical therapist. The topics will be presented from the perspective of differential screening to assist with identifying medical problems and determining when to refer the client to a physician.

**Textbooks:**

*Required:*

Goodman and Snyder, Differential Diagnosis for Physical Therapists, Screening for Referral 4th edition, Saunders, 2007.

Boissonnault, Primary Care for the Physical Therapist, Examination and Triage 2<sup>nd</sup> edition, Elsevier Saunders, 2005.

*Recommended:*

Ciconne, CD. Pharmacology in Rehabilitation. 4th ed. FA Davis. 2007

Goodman and Fuller, Pathology Implications for the Physical Therapist, 3rd ed., Saunders 2009.

**Course Structure:** Lecture with a focus on clinical case scenarios. Students are expected to contribute to the active learning process. Assigned readings outside of the

Goodman & Snyder, Boissonnault, and Ciconne texts will be posted on the Moodle Course page. Please follow the Course Moodle page on a regular basis.

**Course Objectives:**

*1. Clinical Decision Making and Examination*

- a. Describe the process of hypothesis-oriented algorithms within the context of the ICF model of disability as it is used to guide physical therapy diagnosis, evaluation, and treatment.
- b. Differentiate between disease and illness, signs and symptoms, acute and chronic illness.
- c. Define differential diagnosis and state the role it plays in physical therapy practice.
- d. Describe the sources and types of pain.
- e. Recognize constitutional symptoms of systemic disease and utilize them in the completion of differential diagnosis.
- f. Engage in diagnostic process to establish differential diagnosis for patients across the lifespan based on evaluation of examination results and medical and psychological information.
- g. Determine the need for further examination or consultation by a physical therapist or for referral to another health care professional.

*2. Interviewing the Patient*

- a. Describe the appropriate interview process for patients receiving physical therapy.
- b. Determine the appropriate interview questions and analyze resultant information for key indicators.
- c. Determine from interview data when referral to other health care professionals is appropriate.

*3. Pharmacology*

- a. Describe the normal mechanisms of drug absorption, distribution, metabolism and excretion for prescription and over-the-counter drugs.
- b. Describe how the normal mechanisms of pharmacotherapeutics are altered by disease state and age.
- e. Explain why physical therapists cannot prescribe drugs and should not advise patients/clients to take a particular drug.
- f. Demonstrate how to effectively communicate with a physician about particular medication(s) your client is taking.
- g. Given a patient history, determine the effects of a drug regimen on physical therapy treatment.
- h. Determine when signs/symptoms indicate the need for a referral to a pharmacist or physician.

*4. Hepatological Diseases*

- a. Describe the common signs/symptoms of persons with these disorders.
- b. Describe the common forms of medical intervention for these disorders.
- c. Determine the implications of medical management on physical therapy

interventions.

*5. Oncology*

- a. Describe the common presenting symptoms of persons with the common forms of cancer.
- b. Describe the underlying pathology and theoretical causes of the common forms of cancer.
- c. Describe the course of progression of the common forms of cancer.
- d. Describe the typical patterns of medical management for clients with cancer.
- e. Describe lifestyle risk factors for the prevention of cancer.
- f. Describe the various chemotherapeutic agents and radiation therapy approaches used to manage cancer.
- g. Determine the impact of common medical management for cancer on physical therapy intervention for this client population.
- h. Using the typical referred pain patterns to determine if a client being seen for a possible neuromusculoskeletal problem should be referred to another health care professional.

#### 6. *Immunological diseases*

- a. Describe the common signs and symptoms of persons with various immunological disease states.
- b. Describe the epidemiology, diagnosis and prognosis for rheumatoid arthritis and osteoarthritis.
- c. Describe the appropriate physical therapy management of these clients, considering pain reduction, deformity prevention, exercise prescription, and function preservation.
- d. Describe the major differences between osteo- and rheumatoid arthritis.
- e. Describe the medications commonly utilized to manage arthritis.
- f. Describe the common forms of medical intervention for these disorders.
- g. Describe the underlying pathology and theoretical causes.
- h. Describe lifestyle risk factors for acquiring HIV/AIDS.
- i. Determine the types of immunological condition and appropriate physical therapy intervention.

#### 7. *Transplantation*

- a. Describe the common transplantation procedures.
- b. Describe the potential complications that a transplant patient may encounter.
- c. Determine the implications of medical management on physical therapy interventions.

### **Evaluation Methods:**

The course grade will be comprised of the following:

Quizzes	25%
Final Examination	30%
Exam Questions	5%
Hematology Assignment	10%
Immunology Assignment	10%
Oncology Assignment	10%
Course Contribution	10%
<hr/> Total	100%

**Description of Evaluation Methods:**

- (1) Quizzes: You will be given five (5) quizzes throughout the semester that will cover material from assigned readings as well as lecture material. Quizzes will be given either on Moodle or during class at the instructor's discretion.
- (2) Exam Questions: As a study exercise students will be required to submit electronically to the course instructor five (5) typed-written multiple choice questions prior to each exam. Specific exam question writing instructions will be posted to Moodle.  
**Final Exam:** Wednesday, 12/3/2013. No later than 5pm.  
No late submissions will be accepted. A compilation of appropriate topic questions will be returned to all students to use as a study guide. The course instructor reserves the right to use well-written, topic appropriate questions with correct answers on the respective exam. However, no more than 20% of the respective examination will consist of student submitted questions. For instance, IF the examination consists of 50 multiple choice questions, no more than 10 student submitted questions will be used.
- (3) Hematology, Immunology, and Oncology Assignments: During each unit, students will be required to complete an assignment on the unit's material. The type of assignment will vary for each unit. Details of each assignment will be given on the first course day and can be found on Moodle.
- (4) Cumulative Final Examination: The final examination will be cumulative. It will consist of multiple choice, short answer and case analyses. The final examination will be an independent, in-class, closed resource examination.
- (5) Course Contribution: It is expected that all students will actively contribute to this course in a positive manner. Students are expected to demonstrate professional behaviors (Please refer to the UMPT Student Handbook) at all times. Course contribution grades are dependent upon class attendance, professionalism, knowledge of the topic area, and participation during class discussions. Specific "Course Contribution" scoring criteria will be posted on the Course Moodle Shell.

**Grading Scale:**

The grading criteria will follow the policy of the School of Physical Therapy and Rehabilitation Science (see student handbook) with a passing grade being a "C" and a 73 percent.

Percentage	Grade	Grade Point
90-100	A	4.0
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and /or disciplinary sanction by the University. Any evidence of cheating or plagiarism will result in failure of the course. All students need to be familiar with the Student Conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VPSA/index.cfm/page1321>.

**Disabilities:** The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please contact DSS in Lommasson 154. The course instructor will work with you and DSS to provide an appropriate accommodation. Students are responsible for notifying the instructor of a need for accommodation. The instructor will work with the student to provide accommodations that are appropriate.

**Attendance/Remediation Policy:**

Students are required to attend all lectures/labs and arrive on time for class. If the student is absent or late for class, it is the student's responsibility to notify the course instructor prior to the start of class.

**Excused absence:** An excused absence must be verified as excused by the instructor. Absences may be considered excused if due to illness, accident, or emergency at the instructor's discretion. A student with a verified excused absence will still be responsible to make up work that was missed and he/she is responsible to coordinate remediation with the course instructor. Students will be allowed fair and equitable remediation for a missed class material if the absence is excused.

**Unexcused Absence:** An unexcused absence will result in score of zero for missed assignments, quizzes, and/or exams that were scheduled for the time that was missed. Students will lose 2 points off their final course grade for each unexcused absence up to four unexcused absences. If a student misses more than four class days, they will be subject to remediation and/or disciplinary action.

**Academic Integrity:**

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code.

The Code is available for review online:

<http://life.umt.edu/vpsa/documents/StudentConductCode1.pdf>

**Professional Behaviors:**

Professional Behaviors: Professional behaviors are expected in this course. These include (but are not limited to): responsibility for one's own learning, completion of group and individual assignments in a timely manner, on time attendance, coming to class

prepared, treating fellow students, staff, and faculty with respect, receiving and giving constructive criticism when appropriate. Cell phones should be turned off and put away. No text messaging during class. Lap top computers may be used to take notes and when appropriate, search the web for information pertaining to the topic being discussed in class. Other uses of personal computing devices in class are prohibited. Please refer to the "Generic Abilities" section in your student handbook. If a student persistently exhibits unprofessional behavior during class, they will be subject to disciplinary action. In addition, in the instance that patients are discussed, or serve as guest speakers, it is expected that students maintain patient confidentiality and are HIPAA compliant. Professional dress is expected on any day there is a guest speaker presenting.

**School of Physical Therapy and Rehabilitation Science Policy on Cellular Devices, Audio and Video recording:**

Cellular devices must be turned off and stowed during class. Use of a cellular device for class-related activities (calculator, for example) is permissible upon request of the instructor but texting, web access use of the device in any communicative mode is prohibited unless otherwise permitted by an individual faculty member for his or her course. Audio or video recording of lectures or laboratory classes without written permission by the instructor or faculty member is strictly prohibited. Failure to abide by this policy is an infringement of copyrights afforded to faculty members and considered a violation of The University of Montana Student Conduct Code. Students will face disciplinary action for violating any of the policies outlined above.

**All PowerPoint Slides are the property of the instructors and shall not be shared or disseminated without permission.**

### Course Schedule

Date	Time	Topic	Speaker	Readings	Assignments
10/15	110-300	Introduction to Course and Expectations; Medical Screening	Jennifer Bell, PT, ScD, COMT	G & S: Chp 1, Bois: Chp 8	
10/17	110-300	Systems Review, Patient interviewing; Pain Referral Patterns	Jennifer Bell, PT, ScD, COMT	G & S: pp 245-250, Bois: Chp 9	
10/22	110-300	<b>Quiz;</b> Lab Values and Pharmacology	Jennifer Bell, PT, ScD, COMT	G & S: Chp 3; Bois: Chp 15; Bois chp 4, review chart on p 113; Ciconne Chp 1	
10/24	110-300	<b>Quiz;</b> Hepatology	Jennifer Bell, PT, ScD, COMT		
10/29	110-300	Hepatology			
10/31	110-300	<b>Quiz;</b> Immune System	Jennifer Bell, PT, ScD, COMT	G & S: Chp. 12	
11/7	110-300	Immune System: Patient Perspective			
11/12	110-300	<b>Quiz;</b> Transplantation	Jennifer Bell, PT, ScD, COMT		
11/14	110-300	Transplantation Mgmt: Case Study	<b>Reed Humphrey, PT, PhD</b>		
11/19	110-300	<b>Quiz;</b> Intro to Oncology; polypharmacy	Jennifer Bell, PT, ScD, COMT	G & S: Chp. 13	
11/21	110-300	Oncology; Patient Management Case Study	Jennifer Bell, PT, ScD, COMT	G & S: Chp. 13	
11/26		<b>Thanksgiving</b>			
11/28		<b>Thanksgiving</b>			
12/3/2013	110-300	Oncology Patient Perspective	Jennifer Bell, PT, ScD, COMT		Final Exam Questions Due
12/5/2013	110-300	Review <b>SB336</b>	Jennifer Bell, PT, ScD, COMT		
Week of 12/8		Cumulative Final Exam			