

1-2014

PHAR 452.01: Therapeutics II - Clinical Use of Antimicrobials

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Recommended Citation

Allington, Douglas; Beall, Donna G.; Haney, Kerry J.; Proacci, Kendra A.; and Rivey, Michael P., "PHAR 452.01: Therapeutics II - Clinical Use of Antimicrobials" (2014). *Syllabi*. 2310.

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Therapeutics II: Clinical Use of Antimicrobials
Pharmacy 452 Spring 2014
MWF 10:10-11:00
Room: Skaggs SB 117

Course Coordinator: Doug Allington Office: SB 332
Phone: Office 243-2498

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(Jacob Osmundson, Haley Blackburn, Sarah Norman, Rachel Foster – pharmacy residents)

Material and Resources

Required Texts DiPiro JT. *Pharmacotherapy. A pathophysiologic approach*, 8th edition.
 APhA. *Handbook of nonprescription drugs*, 17th edition
Lab tests online: excellent online resource which provides reference
 ranges and ‘meanings’ of lab tests. <http://www.labtestsonline.org/>

Other

References: *Principles and practice of infectious diseases.*
(In DLSS) *Infectious Disease Handbook.* 6th edition. Mandell

Applied Clinical Pharmacokinetics. Bauer

Sanford's Guide. Guide to antimicrobial therapy. 2008 (Large Print)

Pharmacy Practice Manual, 2nd ed., Boh.

Goals of the Course

To promote the students’ understanding of common infectious disease states with particular emphasis on the facets which are amenable to drug therapy.

To familiarize the student with the proper use of antimicrobial drugs in various practice settings.

To develop the students’ awareness of factors that should be considered prior to selection of a drug and the appropriate therapeutic and safety monitoring parameters.

To develop the students’ ability in creative thinking and problem-solving for common drug related issues in the clinical setting.

Performance Objectives

Upon completion of this course, each student shall be able to:

Select the most appropriate drug class, the 'best' individual medication, optimal dosing route and regimen given a specific patient parameter, sign, symptom or laboratory data.

Determine the proper role of non-pharmacologic and herbal therapy for common infectious diseases.

Tailor drug therapy for an individual based on patient characteristics that would determine absolute and relative contraindications for individual classes of antibiotics or individual agent, recognize important drug-drug interactions and significant adverse effects.

Monitor the appropriate parameters of a disease to determine if the patient is responding positively to therapy.

Student Responsibilities and Obligations

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 at http://life.umt.edu/vpsa/student_conduct.php

Students with disabilities are welcome to discuss accommodations with the course coordinator.

Mastery of course material in the Therapeutics sequence challenges students to accept responsibility for his/her own learning. Student responsibility for outside classroom reading and course preparation will increase from Therapeutics I-IV. Students will be expected to have completed the required reading for a given lecture *before* attending the class.

The instructors in this sequence welcome and encourage class participation. Please feel free to ask pertinent questions in class. You may be called upon in class to answer questions or otherwise comment in class. Short, in-class writing or group discussion assignments may occasionally be used to further develop your thinking skills and to elicit your feedback about the class.

In recent years fellow students have clearly indicated that they wish to listen and actively discuss therapeutic issues, they do not appreciate unrelated “conversations” which prevent or inhibit their ability to listen in class. Certain behaviors in class may be distracting to other students and to the instructor giving the presentation, please be considerate of others. Excessive talking to peers, reading outside material or newspapers, and cell-phone conversations or texting are just a couple of examples of distracting behavior identified in past classes. The instructor may stop class to ask individuals to discontinue distracting behaviors. Students may be asked to leave class if they are unwilling to modify their behavior once identified. The honor code may be enforced for violators.

Babies, infants, or children do not find these lectures entertaining. Some material and slides shown in class are not appropriate for these age groups. Therefore they should not be brought to class unless it is an emergency and it is unavoidable.

Examination Point Structuring: 10 points on all tests will be review material (BMED 328) or from previous topics in this course. (ie 10 points from exam 1 material on Exam #2)

Exam 1	100 points	Example student :1	80
Exam 2	100 points		90
Exam 3	100 points		80
Final exam	100 points		87
Total exam points:	400 points		337
Maximum Quiz Bonus Points	<u>20 points</u>		16 bonus (353)

GRADING IN COURSE: Student #1 example: $353/400\text{pts} = 88.2\%$ B+

A = 92-100% of total points	C+ = 78-79%
A- = 90-91%	C = 72-77%
B+ = 88-89%	C- = 70-71%
B = 82-87%	
B- = 80-81%	

Bonus Quizzes: Quizzes are meant to reward reading and study of course material prior to class. Quizzes will be given AT THE START OF CLASS (5-8 minutes). There are no makeup quizzes. There are ten quizzes scheduled each worth 10 points. The two lowest scores will be dropped. You will receive bonus points if your remaining total 8 quiz scores exceeds 60 points. (i.e. 8 quizzes at 10 points 80 pts- 60pts= 20 bonus points; 6quizzes at 10pt; 2 x 8 pts= 76 pts- 60= 16 bonus points).

Examination format usually involves data presented in “traditional” patient-case format. Answers to questions will typically require selection of the ‘BEST’ multiple-choice answer or will require written, short answers. **Tests will be given on Monday’s 5-7PM or Friday’s 1-3PM in SB 169. Alternate testing times are granted in EMERGENCY situations. Any ‘excuse’ for missing a test must be approved BEFORE the test is given. At the time of alternate testing an ‘agreement’ form must be signed and will be filed with Dean’s office stating you have not received nor will you pass on test information. A conflict with a ‘work’ schedule is not an acceptable excuse for not taking an exam. Calculators may be required for tests; PDAs are not allowed.**

Exams are not returned in this course. Some instructors may award 2 pts for class attendance on days when numerous students ‘skip’ class to study for other exams.

Pharmacy is a profession of checks and double checks. It is your responsibility to make sure that the scantron contains ALL of the FINAL answers you want recorded for that test. Additional points will not necessarily be awarded based upon omission to the scantron or mistaken transcriptions from the exam to the scantron.

	<u>Date</u>	<u>Topic</u>	<u>Lecturer</u>	<u>DiPiro 8th Edition</u>
1.	M Jan 27	Course Intro/SOAP NOTES	DA	HANDOUT
2.	W Jan 29	<i>Lab-Micro/Clinical Med QUIZ</i>	DA	DiP. Chap 113&114
3.	F Jan 31	Otitis Media	KP	DiP.1867-1870
4.	M Feb 03	Resistance/Abx stewardship	JO	Handout
5.	W Feb 05	<i>Clin.Kinetics/AG-1 QUIZ</i>	DA	Handout
6.	F Feb 07	AG (Aminoglycosides Kin.)	DA	Handout
7.	M Feb 10	Upper Resp. Tract Infections	KP	Dip.1870-1878
8.	W Feb 12	<i>Pneumonia QUIZ</i>	DA	DiP. Chap 116
9.	F Feb 14	Pneumonia	DA	DiP. Chap 116
10.	M Feb 17	President’s DAY		
11.	W Feb 19	Tuberculosis	HB	DiP. Chap 121
12.	F Feb 21	Cystic fibrosis	KP	Dip. Chap 37
13.	M Feb 24	Class off		
	M Feb 24	<u>TEST #1: 5-7 pm SB 169 (Through Cystic fibrosis)</u>		
14.	W Feb 26	<i>Sexually Trans Disease. QUIZ</i>	DB	DiP. Ch. 126
15.	F Feb 28	STD	DB	as above
16.	M Mar 03	OB/GYN infections	DB	OTC pp.121-139
17.	W Mar 05	<i>UTI QUIZ</i>	KP	DiP. Ch. 125
18.	F Mar 07	Viral infections	KH	DiP. Ch. 118
19.	M Mar 10	Fungal infections	KH	DiP. 2087-2102
20.	W Mar 12	HIV/AIDS	KH	DiP. 2169-2182
21.	F Mar 14	HIV/AIDS	JO	“ “ “
22.	M Mar 17	HIV/AIDS	KH	DiP. 2182-2187
23.	W Mar 19	Skin/Soft tissue	KH	OTC 747-749. DiP Chap. 119
24.	F Mar 21	No class due to test 2		
	F Mar 21	<u>TEST #2: 1-3pm SB 169 (Through skin/soft tissue)</u>		

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| 25. | M Mar 24 | <i>Surgical Prophylaxis QUIZ</i> | MR | DiP. Chap 132 |
| 26. | W Mar 26 | Bone and Joint infections | MR | DiP. Chap 127 |
| 27. | F Mar 28 | Vancomycin Kinetics | MR | |

M March 31st - F Apr 4th SPRING VACATION

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|-----|-----------------|---|----|--------------------|
| 28. | M Apr 07 | Sepsis Quiz | RF | DiP Chap 128 |
| 29. | W Apr 09 | Sepsis | RF | “ “ |
| 30. | F Apr 11 | <i>Endocarditis QUIZ</i> | DA | DiP. Chap 120 |
| 31. | M Apr 14 | CNS Infections | DA | DiP. Chap 115 |
| 32. | W Apr 16 | CNS Infections continued | | |
| 33. | F Apr 18 | Class off | | |
| | F Apr 18 | <u>Test #3 1-3pm SB 169 (through CNS infections)</u> | | |
| 34. | M Apr 21 | GI infections | MR | DiP. Chap 122 |
| 35. | W Apr 23 | Intra-abdominal Infections | MR | DiP. Chap 123 |
| 36. | F Apr 25 | Evaluation of GI Tract | MR | DiP. CH.38 |
| | | Peptic ulcer disease (QUIZ ON CHAPTER Ch.40) | | |
| 37. | M Apr 28 | Peptic Ulcer Disease | MR | OTC chap 13 |
| 38. | W Apr 30 | Gastroesophageal Reflux | MR | Dip. Chap 39 |
| 39. | F May 02 | <i>Inflammatory Bowel Dx (IBD) (Quiz)</i> | MR | DiP. Chap 41 |
| 40. | M May 05 | IBD | MR | “ “ |
| 41. | W May 07 | Diarrhea & Constipation | MR | DiP.ch.43OTC 15,16 |
| 42. | F May 09 | Ostomy /Evaluations | MR | OTC chap 21 |

FINAL EXAM, Wed, May 14th 8:10-10:00 SB 169