PHCL 441: Therapeutics I  
Course Syllabus

Course Coordinator:
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Clinical Instructors:

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Please check instructor’s office bulletin boards for student’s assigned office hours.

Course Schedule: (Day/location/time).
Sections: 621 and 623  
Lectures Days: Sunday and Tuesday: 11-12 noon. Please observe University policy for hours during Holy month of Ramadan.
Case Discussion (Lab): Sunday 01:00 – 04:00 p.m.
Location: Classroom # 22  Bldg. 2 (lectures & lab)

Course Description:
This therapeutic course briefly reviews the pathophysiology of various diseases with primary focus on applying therapeutic knowledge to care for patients with such diseases.

Course Educational Goal
At the completion of this course, the student will have an overview of the pharmaceutical care of patients with selected diseases.

/prepared by Ghada Bawazeer  1  9/10/2007
Course Learning Objectives:
At the completion of this course, the student should be able to:
1- Integrate pharmacology, pathophysiology, pharmacodynamic, pharmacokinetics and other biomedical and pharmaceutical sciences as they pertain to clinical therapeutics of certain disorders.
2- Select and recommend appropriate patient focused drug therapy treatment plans.
3- Apply treatment guidelines and protocols for selected patient populations.
4- Evaluate the appropriateness of patient specific drug therapy regimen and treatment plans.
5- Monitor expected therapeutic outcomes and potential adverse effects of drug therapy.
6- Use problem solving skills and knowledge to solve therapeutic cases.

Assigned Readings:

Gastrointestinal Module: (Dr. Lamya AlNaim)
Peptic Ulcer disease
- Applied Therapeutics: Clinical Use of Drugs. 8th ed. Chapter 27
- Eradication of H. pylori: A Clinical Update. Medscape general medicine gastroenterology 6 (1); 2004.
Gastroesophageal Reflux disease (GERD)
- Applied Therapeutics: Clinical Use of Drugs 8th ed. Chapter 27
Hepatitis
- Handbook of pharmacotherapy 5th ed. Chapter 23
- Instructor supplied notes
Cirrhosis
- Textbook of Clinical Pharmacy and Therapeutics, 8th ed. Chapter 50
Rheumatoid Arthritis:
- Guidelines for the management of rheumatoid arthritis
- Medical management of rheumatoid arthritis, Clinician Reviews. 2003; 13(3): 48-53

Respiratory Module: (Dr. Lina Ashoor)
Asthma:
- Textbook of Clinical Pharmacy & Therapeutics. Chapter 34; pages 877 – 914
Chronic Obstructive Pulmonary Disease (COPD)
- Textbook of Clinical Pharmacy & Therapeutics. Chapter 34; pages 919 - 937
Pneumonia
- Textbook of Clinical Pharmacy & Therapeutics. Chapter 75; pages 1902 – 1935

Cardiology Module: (Dr. Nouf & Ghada)
Hypertension
1. The seventh report of the joint national committee on prevention, detection, evaluation and treatment of high blood pressure
Ischemic Heart Disease
1. Ischemic heart disease. chapter 15, Pharmacotherapy: a pathophysiologic approach 6th ed, 2005
3. ACC/AHA joint guidelines (highly recommended) you will find @ www.americanheart.org
   a. ACC/AHA Pocket guidelines: management of patient with chronic stable angina
   b. ACC/AHA 2007 Guidelines for the Management of Patients With Unstable Angina/Non–ST-Elevation Myocardial Infarction: Executive Summary
   c. ACC/AHA Pocket guidelines: management of patient with chronic stable angina
   d. Management of Patients With ST-Elevation Myocardial Infarction
4. Lab reading requirement:
   a. Emergency and urgency hypertension
   b. AHA/ACC Guidelines for Secondary Prevention for Patients With Coronary and Other Atherosclerotic Vascular Disease: 2006 Update

Heart Failure (HF):
- Pharmacotherapy: A Pathophysiologic Approach. 5th ed. DiPiro JT (Eds), Chapter 13
- HFSA 2006 Comprehensive Heart Failure Practice Guideline. (A copy of selected guidelines will be provided).
- Instructor notes/handout

Thromboembolic diseases:
- Applied Therapeutics: Clinical Use of Drugs 8th ed. Chapter 15
- Instructor notes/handout
Course Policies:
Student behavior and expectation:
- All students will act appropriately and professionally during class.
- Attendance is mandatory.
- Please be punctual, No late comers will be allowed into the class.
- Students shall respectfully ask questions, follow instructor requests when applicable.
- Cell phones should be turned off or put on vibrate/silent mode. Violators will be asked to leave class.
- No TALKING….No GUM Chewing during class….
- Please Take Off your Abayya (ﻋﺒﺎءة) it is a classroom not a Shopping Mall ☺. If you feel cold please wear heavy cloths.

Classroom format:
The student will get out of the class as much as they put in. Students are expected to read the assigned topic before coming to the class. Students are encouraged to form study groups to help each other reinforce the information learned.
This class will utilize the following educational strategies:
- Active learning format is encouraged during this course. Students are encouraged to engage in discussion.
- Microsoft PowerPoint data show.
- Handout may be provided to outline main points about the topic. HANDOUTS ARE NOT SUBSTITUTE FOR TEXTBOOK READINGS.
- Case discussion during lectures and lab periods.
- Case Presentation
- Drug card quizzes.

Case Discussion:
During each lab all students will be given case(s)/topic to prepare for the next lab session. Students will be called randomly to answer questions pertaining to the case/topic. Students will be graded accordingly.

Case Presentation:
- Each student will be assigned a case (teamed with another student). Assigned cases will be distributed at the beginning of the semester. Any delay in obtaining the case is the total responsibility of the student. Students are expected to work up the case, search and consult the necessary references for appropriate recommendations.
- A copy of the case note/presentation should be submitted to the instructor TUESDAY THE WEEK BEFORE YOUR PRESENTATION.
- Students will have 15-20 minutes to present their cases to the class during the lab period. The presentation will be followed by 10 minutes question and answer session. It is this part of the case that will be used to evaluate students. (to have an idea about evaluation criteria please review the case presentation evaluation form).

Drug Card Quizzes:
Each instructor will provide you with the five (5) most important drugs pertaining to her module. You should know the following information on each drug: generic name, trade name, therapeutic class, dosage forms, FDA approved indications, specific doses, most important patient counseling tips. Each 5 drugs will be the subject of a quiz following each module (during lab hours-see outline table).
College policy on class attendance and exams:

a. Missed exam or quizzes for a medical reason require an excuse from the physician. The report MUST THEN be signed and accepted by the academic office.

b. Students missing ≥25% of the course attendance (this include attendance from both lectures and lab) will Not be allowed to set in the final exam. Please do the math and be smart ☺

Grade Distribution:

Semester’s exams and activities:

<table>
<thead>
<tr>
<th>Exam Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid Term Exam I</td>
<td>15</td>
</tr>
<tr>
<td>MidTerm Exam II</td>
<td>15</td>
</tr>
<tr>
<td>Case Presentation</td>
<td>5</td>
</tr>
<tr>
<td>Drug Card Quiz x 4</td>
<td>10</td>
</tr>
<tr>
<td>Case/topics discussed in lab</td>
<td>15</td>
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<tr>
<td>Final Exam</td>
<td>40</td>
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</tbody>
</table>

Total: 100 points

Please Observe College Exam Schedule for Dates of Midterms and Final Exams. Mid Term Exams will be given during the Lab hours. Please check lecture/lab outline table for important dates

Exam review session: this can be arranged if requested by the majority of the student (time arranged by students). Attendance of 90% of the class is required.

Student's complaints:

Any issues related to this course teaching, examinations and grading should be first resolved with the course lecturer promptly to ensure healthy learning atmosphere. Unresolved issues should be addressed with the course coordinator. In the unfortunate event that the issue couldn’t be resolved, parties should consult with the Deputy of Head of the Department (Dr. Sinaa AlAkeel). Unresolved issues should be directed to College Vice Dean (Dr. Amal Fatani)

Course Evaluation: Students will be asked to fill an evaluation form at the end of this course. Students are encouraged to provide constructive and objective comments regarding the instructor(s) and the course content.
Lectures / Lab Outline

<table>
<thead>
<tr>
<th>Week#</th>
<th>Day</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Important Activities</th>
<th>Case #</th>
<th>Topics covered in Lab</th>
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<tr>
<td>1</td>
<td>SUN</td>
<td>٧٢ شعبان</td>
<td>No class</td>
<td>No lab</td>
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<td>TUE</td>
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<td>TUE</td>
<td>٦ رمضان</td>
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<td>PUD</td>
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<tr>
<td>3</td>
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<td>١١ رمضان</td>
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<td>TUE</td>
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<td>5 - 6</td>
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<td>7</td>
<td>SUN</td>
<td>٩ شوال</td>
<td>PUD</td>
<td>Dug card Quiz 1</td>
<td>PUD case</td>
<td>ERADICATION OF H. Pylori.</td>
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<td>TUE</td>
<td>١١ شوال</td>
<td>PUD</td>
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<td>GERD case</td>
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<td>SUN</td>
<td>١٦ شوال</td>
<td>Pneumonia</td>
<td>Hepatitis Case</td>
<td>Cirrhosis case</td>
<td>Tx of viral hepatitis B &amp; C in patients with AIDS, RF or on chemo</td>
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<tr>
<td></td>
<td>TUE</td>
<td>١٨ شوال</td>
<td>Pneumonia</td>
<td></td>
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<td>Inhilation devices</td>
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<td>SUN</td>
<td>٢٣ شوال</td>
<td>ASTHMA</td>
<td>Mid Term 1</td>
<td>RA case</td>
<td>Emergency and urgent hypertension</td>
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<td>٢٥ شوال</td>
<td>ASTHMA</td>
<td>Asthma Case</td>
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<td>Drug Card Quiz 2</td>
<td>COPD case</td>
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<td>Drug Card Quiz 3</td>
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<td>Drug Card Quiz 4</td>
<td>DVT Case + Anticoag case</td>
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