PHA5782C: Patient Care II
Introduction to Infectious Disease and Hematology/Oncology

Fall 2019

4 Credit Hours – [A-E Grading]

Second of an eight-course sequence that prepares the student to provide patient-centered care by serving as a collaborative interprofessional team-member who is an authority on pharmacotherapy. Learning occurs through team-based learning. This course focuses on providing patient-centered care to patients who have the following disorders: infectious disease, hematology and oncology disorders. Learners will develop, integrate, and apply knowledge from the foundational disciplines (i.e., pharmaceutical, social/behavioral/administrative, and clinical sciences) and apply the Pharmacists’ Patient Care Process in solving case-based scenarios of patients with infectious diseases, hematologic and oncology disorders.

Teaching Partnership Leader

Priti N. Patel, Pharm.D., BCPS

- Email: ppatel@cop.ufl.edu
- Office GNV HPNP 2314A
- Office Hours: By appointment ONLY.

See Appendix A. for Course Directory of Faculty and Staff Contact Information.

Entrustable Professional Activities

This course will prepare you to perform the following activities which the public entrusts a Pharmacist to perform:

2. Analyze information to determine the effects of medication therapy, identify medication-related problems, and prioritize health-related needs.
   - ST 2.3b. Interpret data related to personalized medicine.

3. Establish patient-centered goals and create a care plan for a patient in collaboration with the patient, caregiver(s), and other health professionals that is evidence-based and cost-effective
   - ST3.1. Follow an evidence-based disease management protocol.
6. Collaborate as a member of an interprofessional team.
   • ST6.3. Communicate a patient’s medication-related problem(s) to another health professional.

9. Maximize the appropriate use of medications in a population.
   • ST9.2. Apply cost-benefit, formulary, and/or epidemiology principles to medication-related decisions.

Course-Level Objectives

Given a case of a patient with one or more of the above disorders/pharmacotherapy needs, Integrate knowledge and use clinical reasoning skills in accomplishing the following steps when managing a patient with the disease state:

i. Collect: Gather subjective and objective information and analyze the data in order to understand the relevant medical/medication history and clinical status of the patient.
   1. Subjective and objective information is collected through comprehensive medication review with the patient, medical record review, pharmacy profile review, and communication with other members of the health care team.
   2. A holistic view is initiated during collection in order to consider physiological, psychological, and sociological variables of the patient and this view is maintained throughout the patient care process.

ii. Assess: Assess the information collected and formulate a problem list consisting of the patient’s active medical problems and medication therapy problems in order to prioritize medication therapy recommendations to achieve the patient’s overall health goals.
   1. Assess the patient’s active medical conditions taking into account clinical and patient goals of therapy.
   2. Assess the indication, effectiveness, safety, adherence and convenience (administration, access, affordability) of each medication the patient is taking.
   3. Include in the assessment an evaluation of risk factors, relevant psychosocial issues, and the need for preventative care or for referral to another healthcare practitioner for further evaluation.
   4. Formulate a medication therapy problem list, classifying the patient’s medication therapy problems based on indication, effectiveness, safety, and compliance.
   5. Prioritize the patient’s medication therapy problems.

iii. Plan: Develop an individualized patient-centered care plan in collaboration with other health care professionals and the patient/caregiver that is evidence-based and as affordable as possible.
   1. For each problem, create patient-centered goal(s) in collaboration with the patient/caregiver and other members of the healthcare team.
   2. Develop a care plan to manage the patient’s active medical conditions and resolve the identified medication therapy problems.
   3. Identify monitoring parameters to assess effectiveness, safety, adherence, and quality of life.

iv. Implement: Implement the care plan in collaboration with other health care professionals and the patient/caregiver.
1. For each condition and associated recommended strategy for resolving identified MTPs, provide the medication order in its entirety, including full drug name, dose, dosage form, route of administration, dosing interval, duration of therapy
   a. Discuss the care plan with the patient.
   b. Educate the patient on his/her medications (which may include explanations of medication action, the regimen or its proper discontinuation, proper medication use and storage, expected results and when to expect them, possible adverse effects, and when and how to follow-up or seek additional care.
2. Where appropriate, contribute to coordination of care by providing documentation to other providers using an evidence-based method of communication, such as SBAR (Situation, Background, Assessment, Recommendation) or SOAP (Subjective, Objective, Assessment, Plan)

v. **Follow-up with the Patient:** Monitor and evaluate the effectiveness of the care plan and modify the plan in collaboration with other health care professionals and the patient/caregiver.

### Course Pre-requisites
1. Completion of all Year 1 Pharm.D. program coursework including milestones.

### Course Co-requisites
1. PHA5755 Principles of Medical Microbiology, Immunology, and Virology
2. PHA 5163L Professional Practice Skills Lab III

### Course Outline

See *Appendix B. Course Outline*. Please routinely check your campus calendar and the Canvas course site for any messages about changes in the schedule including meeting dates/times, deadlines, and room changes.

### Required Textbooks/Readings
   - Not Available via HSC Library (Purchased as a 1PD)
   - Available via HSC Library – Access Pharmacy
   - Available via HSC Library – Access Pharmacy
   - Not Available via HSC Library (Purchased as a 1PD)
5. Primary literature readings will be posted in Canvas.
Use UF VPN to access UF Libraries Resources when off-campus. The UF HSC library staff can assist you with questions or issues related to accessing online library materials. For assistance contact your College of Pharmacy librarian or visit the HSC Library Website at this URL: http://www.library.health.ufl.edu/

**Suggested Textbooks/Readings**

Suggested readings will be posted in Canvas.

**Other Required Learning Resources**

*EHR Go*

- *EHR Go* is an educational EHR used throughout the PharmD curriculum. Students will be expected to purchase a subscription to this program.
- Create your *EHR Go* account by going to: https://ehrgo.com/ Select *Subscribe* in the upper, right corner and enter the following Pharmacy Student Program Key: S96Y29
- Follow the on-screen instructions to create your account and apply your subscription. Refer to the Skills Labs Canvas site for more detailed information.

**NOTE:**

- 1PDs are encouraged to purchase a 3 year Student Subscription
- 2PDs are encouraged to purchase a 2 year Student Subscription
- 3PDs are encouraged to purchase an Academic Year Student Subscription

**Materials & Supplies Fees**

None

**Student Evaluation & Grading**

Evaluation Methods and How Grades are calculated.

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Grade Percentage</th>
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<tbody>
<tr>
<td>iRATs (6) <em>Single lowest score dropped.</em></td>
<td>15%</td>
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<tr>
<td>tRATs (6) –<em>Team Assessment</em></td>
<td>20%</td>
</tr>
<tr>
<td>Active Learning Session 3 Assignment-<em>Individual Submission</em></td>
<td>3%</td>
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<tr>
<td><strong>Capstone Assignment – team submission</strong></td>
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<tr>
<td>Exam 1-<em>Modules 1-2</em></td>
<td>25%</td>
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<tr>
<td>Final Exam-<em>Comprehensive</em></td>
<td>35%</td>
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<tr>
<td><strong>Total</strong></td>
<td>100%</td>
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**Rounding of grades:**

Final grades in Canvas will be rounded to the 2nd decimal place. If the decimal is X.495 or higher, Canvas will round the grade to X.50. The above scale depicts this policy and grades are determined accordingly. Grade assignment is made using this policy and NO EXCEPTIONS will be made in situations where a student’s grade is “close.”

**Educational Technology Use**

The following technology below will be used during the course and the student must have the appropriate technology and software.

1. ExamSoft™ Testing Platform
2. Canvas™ Learning Management System

For technical support, navigate to Educational Technology and IT Support Contact Information at this URL: http://curriculum.pharmacy.ufl.edu/current-students/technical-help/

**Pharm.D. Course Policies**

The Policies in the following link apply to this course. Review the Pharm.D. Course Policies carefully, at this URL: http://curriculum.pharmacy.ufl.edu/current-students/course-policies/

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**Table 1. Grading Scale**

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Letter Grade</th>
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<tr>
<td>92.50-100%</td>
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<tr>
<td>89.50-92.49%</td>
<td>A-</td>
</tr>
<tr>
<td>86.50-89.49%</td>
<td>B+</td>
</tr>
<tr>
<td>82.50-86.49%</td>
<td>B</td>
</tr>
<tr>
<td>79.50-82.49%</td>
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<tr>
<td>76.50-79.49%</td>
<td>C+</td>
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<tr>
<td>72.50-76.49%</td>
<td>C</td>
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<tr>
<td>69.50-72.49%</td>
<td>C-</td>
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<tr>
<td>66.50-69.49%</td>
<td>D+</td>
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<tr>
<td>62.50-66.49%</td>
<td>D</td>
</tr>
<tr>
<td>59.50-62.49%</td>
<td>D-</td>
</tr>
<tr>
<td>&lt; 59.50%</td>
<td>E</td>
</tr>
</tbody>
</table>
Appendix A. Course Directory

Teaching Partnership Leader/Course Director:

Priti N. Patel, Pharm.D., BCPS
Email: ppatel@cop.ufl.edu

Questions to Ask:

- Questions about grades
- Concerns about performance
- Guidance when there are performance problems (failing grades)
- General questions about content

Instructional Designer:

Julie Thomas, MEd
Email: julie.thomas@ufl.edu
Office: HPNP 4309
Phone: 352-273-6284

Academic Coordinator:

Name: Nicole Marlowe
Email: nicolemarlowe@cop.ufl.edu
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Phone: 352-294-2242

Educational Coordinators:

Name: McKenzie Wallen
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Office: Jacksonville Campus

Name: Iverta Allen
Email: iallen1@cop.ufl.edu
Office: Orlando Campus

Questions to Ask:

- Issues related to course policies (absences, make up exams, missed attendance)
- Absence requests (Only the Academic Coordinator handles absence requests)
- Questions about dates, deadlines, meeting place
- Availability of handouts and other course materials
- Assignment directions
- Questions about grade entries gradebook (missing grades, wrong grade)
- Assistance with ExamSoft® (Distant campus students may contact Education Coordinator for use of Examplify and assistance during exams. The Academic Coordinator is the contact person for issues related to grading and posting of ExamSoft grades.)
Other Teaching Partnership Faculty Members:

Jürgen Bulitta, Ph.D.
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Phone: 727-85-4787

Barbara Santevecchi
Email: bsantevecchi@cop.ufl.edu
Phone: 352-273-5393
<table>
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<tr>
<td>09/13/19</td>
<td>4.3.2</td>
<td>Watch: Small Molecule Inhibitors</td>
<td>DeRemer</td>
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<td>Watch: Monoclonal Antibodies</td>
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<td>Watch: Medicinal Chemistry of Oncology Drugs, Part 1</td>
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<td>Watch: Death and Dying</td>
<td>Normann</td>
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<td>Watch: Discussing Dying</td>
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<td>09/18/19</td>
<td>4.8.3</td>
<td>Watch: Bren Brown on Empathy</td>
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<td>Watch: Medicinal Chemistry of Anti-emetics, Part I</td>
<td>Zheng</td>
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<td>Watch: Medicinal Chemistry of Anti-emetics, Part</td>
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<td>Q&amp;A Session (2 hours)</td>
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<td>Oncology Self-Assessment</td>
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<td>09/19/19</td>
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<td>Transcending Concepts** - Informatics / Interprofessional (SBAR) / Medication Safety and Patient Safety (Drug Therapy Problems Related to Access)</td>
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<td>Watch: Patient Assistance Programs</td>
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<td>09/19/19 @ 8:30-12</td>
<td>4.1-4.12</td>
<td>Active Learning Session 6: Lymphoma, Nausea, and Vomiting in the Cancer Patient (4 hours)</td>
<td>DeRemer, Luesch, Lamba, Grundmann, Patel, Normann</td>
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<td>09/20/19 @ 8:30-12</td>
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<td>Capstone (4 hours)</td>
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Total Contact Hours in Course: 55.50