PHA5782C Patient Care 2

Fall 2020

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 Leaders

Priti N. Patel, Pharm.D., BCPS

- Email: ppatel@cop.ufl.edu
- Office GNV HPNP 2314A
- Office Hours: Posted on Canvas

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.

ST3.2. Develop a treatment plan with a patient. (including recommend therapeutic alternatives and generic substitution)

ST3.4. Select monitoring parameters to determine the therapeutic and adverse effects related to the treatment plan.

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

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

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:

1. **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.
    a. 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.
    b. 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.
2. **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.
    a. Assess the patient's active medical conditions taking into account clinical and patient goals of therapy.
    b. Assess the indication, effectiveness, safety, adherence and convenience (administration, access, affordability) of each medication the patient is taking.
    c. 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
    d. Formulate a medication therapy problem list, classifying the patient's medication therapy problems based on indication, effectiveness, safety, and compliance.
    e. Prioritize the patient's medication therapy problems.

3. **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.
    a. For each problem, create patient-centered goal(s) in collaboration with the patient/caregiver and other members of the healthcare team
    b. Develop a care plan to manage the patient's active medical conditions and resolve the identified medication therapy problems.
    c. Identify monitoring parameters to assess effectiveness, safety, adherence, and quality of life.
4. **Implement:** Implement the care plan in collaboration with other health care professionals and the patient/caregiver.
    a. 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
        i. Discuss the care plan with the patient.
        ii. 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.
    b. 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)
5. **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

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.

Date and Time	Mod	Unit Topic	Activity	Contact Time [hr.]a	Faculty
8/24/20	0	Patient Care 2 Introduction	Optional/Supplemental	0.00	Patel
	1	Module 1: Antifungals and Antivirals	Module		Childs-Kean
	1.1	Antifungals	Unit	3.00	Childs-Kean
8/24/20	1.1.1	Watch: Pharmacology of Antifungals	Lecture Video		Childs-Kean
8/24/20	1.1.2	Watch: Medicinal Chemistry of Antifungals	Lecture Video		Ding
8/24/20	1.1.3	Watch: Therapeutics of Antifungals	Lecture Video		Childs-Kean
	1.2	Antivirals	Unit	3.00	Allen
	1.2	Review Med Micro lectures: Virology Basics, Herpesviridae, Influenza	Lecture Video		Allen
8/25/20	1.2	Watch: How Influenza Pandemics Occur (Youtube) https://youtu.be/DdFCx8jbesQ?list=PL9rasaw-kjnzq6gz7bkMg8TQPMVKv7BjI	Video Other		Allen
8/25/20	1.2.1	Watch: Pharmacology of Antivirals	Lecture Video		Allen
8/25/20	1.2.2	Watch: Medicinal Chemistry of Antivirals	Lecture Video		Ding
8/25/20	1.2.3	Watch: Therapeutics of Antivirals	Lecture Video		Allen
8/27/20 @1:55-3:50pm	1.1-1.2	Active Learning Session 1: Antifungals & Antivirals (2 hours) Part 1	Active Learning Session - Zoom	1.00	Allen, Childs-Kean
8/28/20 @1:55-3:50pm	1.1-1.2	Active Learning Session 1: Antifungals & Antivirals (2 hours) Part 2	Active Learning Session - Zoom	1.00	Allen, Childs-Kean
	2	Module 2: Antimicrobials	Module		Venugopalan
	2.1	Introduction to Infectious Diseases and Pharmacokinetics/Pharmacodynamics	Unit	3.50	
8/26/20	2.1.1	Watch: Introduction to Infectious Diseases	Lecture Video		Venugopalan
8/26/20	2.1.2	Watch: Antimicrobial Stewardship	Lecture Video		Venugopalan
8/26/20	2.1.3	Watch: Introduction to Pharmacokinetics and Pharmacodynamics	Lecture Video		Al Shaer
	2.2	Pharmacology and Medicinal Chemistry of Antimicrobials, Part 1	Unit	3.00	Venugopalan
8/27/20	2.2.1	Watch: Natural and Antistaphylococcal Penicillins	Lecture Video		Santevecchi

8/27/20	2.2.2	Watch: Extended Spectrum Penicillin's Part 2	Lecture Video		Santevecchi
8/27/20	2.2.3.1	Watch: 1st, 2nd, and 3rd generation cephalosporins	Lecture Video		Santevecchi
8/27/20	2.2.3.2	Watch: Anitispsedudomonal and Antistaphylococcal Cephalosporins	Lecture Video		Santevecchi
8/27/20	2.2.4	Watch: Carbapenems	Lecture Video		Santevecchi
8/27/20	2.2.5	Watch: Monobactams	Lecture Video		Santevecchi
8/27/20	2.2.6	Watch: Medicinal Chemistry of Beta-lactams	Lecture Video		Huigens
8/27/20	2.2.7	Watch: Glycopeptides	Lecture Video		Venugopalan
8/27/20	2.2.8	Watch: Lipoglycopeptides	Lecture Video		Venugopalan
8/27/20	2.2.9	Watch: Medicinal Chemistry of Glycopeptides	Lecture Video		Huigens
	2.3	Pharmacology and Medicinal Chemistry of Antimicrobials, Part II	Unit	2.00	Venugopalan
8/28/20	2.3.1	Watch: Daptomycin	Lecture Video		Venugopalan
8/28/20	2.3.2	Watch: Oxazolidinones	Lecture Video		Venugopalan
8/28/20	2.3.3	Watch: Tetracyclines	Lecture Video		Venugopalan
8/28/20	2.3.4	Watch: Medicinal Chemistry of Tetracycline Antibiotics	Lecture Video		Huigens
8/28/20	2.3.5	Watch: Sulfonamides	Lecture Video		Venugopalan
	2.4	Acute Bacterial Skin and Skin Structure Infections	Unit	0.50	Venugopalan
8/28/20	2.4	Watch: Acute Bacterial Skin and Skin Structure Infections	Lecture Video		Venugopalan
	2.5	Pharmacotherapy of Surgical Prophylaxis	Unit	0.50	Shoulders
8/28/20	2.5.1	Watch: Pharmacotherapy of Surgical Prophylaxis	Lecture Video		Shoulders
8/28/20	2.5.2	Read: Clinical Practice Guidelines for Antimicrobial Prophylaxis in Surgery -- Tables 1 and 2. Pages 197 – 202 https://www.idsociety.org/Guidelines/Patient_Care/IDSA_Practice_Guidelines/Antimicrobial_Agent_Use/Antimicrobial_Prophylaxis_for_Surgery/	Reading--Web		Shoulders
8/31/20 @ 1:55-3:50pm	2.1-2.5	Active Learning Session 2 Part 1: Skin/Soft Tissue Infection (2 hours)	Active Learning Session - Zoom	1.00	Huigens, Venugopalan
9/2/20 @ 1:55-3:50pm	2.1-2.5	Active Learning Session 2 Part 2: Skin/Soft Tissue Infection - Surgical Prophylaxis (2 hours)	Active Learning Session - Zoom	1.00	Huigens, Venugopalan
	2.6	Pharmacology and Medicinal Chemistry of Antimicrobials, Part III	Unit	2.50	Venugopalan
9/1/20	2.6.1	Watch: Aminoglycosides	Lecture Video		Venugopalan

9/1/20	2.6.2	Watch: PK of Aminoglycosides	Lecture Video		Venugopalan
9/1/20	2.6.3	Watch: Medicinal Chemistry of Aminoglycosides	Lecture Video		Huigens
9/1/20	2.6.4	Watch: Fluoroquinones	Lecture Video		Pardo
9/1/20	2.6.5	Watch: Medicinal Chemistry of Fluoroquinoline Antibacterial Agents	Lecture Video		Huigens
9/1/20	2.6.6	Watch: Macrolide Antibiotics	Lecture Video		Huigens
9/2/20	2.6.7	Watch: Urinary agents - Fosfomycin	Lecture Video		Manigaba
9/2/20	2.6.8	Watch: Urinary agents - Nitrofurantoin	Lecture Video		Manigaba
9/2/20	2.6.9	Watch: Polymixins	Lecture Video		Manigaba
9/2/20	2.6.10	Watch: Clindamycin/Metronidazole	Lecture Video		Venugopalan
	2.7	Uncomplicated Urinary Tract Infection	Unit	0.50	Venugopalan
9/2/20	2.7.1	Watch: UTI	Lecture Video		Venugopalan
9/3/20 @1:55-3:50pm	2.6-2.7	Active Learning Session 3 Part 1: UTI (2 hours)	Active Learning Session--Classroom VC	1.00	Huigens, Venugopalan
9/4/20 @8:30-10:25am	2.6-2.7	Active Learning Session 3 Part 2: UTI (2 hours)	Active Learning Session--Classroom VC	1.00	Huigens, Venugopalan
	2.6-2.7	**In-Class Individual Assignment**	**Assignment (Graded)**	**0.00**	**Venugopalan**
	2.8	Community-acquired Pneumonia	Unit	0.50	Allen
9/8/20	2.8.1	Watch: Community Acquired Pneumonia	Lecture Video		Allen
9/9/20 @1:55pm-3:50pm	2.8	Active Learning Session 4 Part 1: Community-Acquired Pneumonia (2 hours)	Active Learning Session - Zoom	1.00	Huigens, Allen
9/10/20 @10:40am-12:35pm	2.8	Active Learning Session 4 Part 2: Community-Acquired Pneumonia (2 hours)	Active Learning Session--Classroom VC	1.00	Huigens, Allen
9/11/20 @ 2:00-4:00pm	1-2	Exam 1: Modules 1-2 (2.5hr)	Exam	2.50	Patel
	3	Module 3: Basic Principles of Cancer Treatment	Module		D. DeRemer
	3.1	Principles of Oncology Therapeutics	Unit	1.00	D. DeRemer
9/10/20	3.1	Watch: Principles of Oncology	Lecture Video		D. DeRemer
	3.2	Pharmacology of Oncology Agents, Part I	Unit	1.50	D. DeRemer
9/11/20	3.2.1	Watch: Alkylating Agents	Lecture Video		D. DeRemer

9/11/20	3.2.2	Watch: Antimetabolites	Lecture Video		D. DeRemer
9/11/20	3.2.3	Watch: Topoisomerase Inhibitors	Lecture Video		D. DeRemer
9/11/20	3.2.4	Watch: Antimitotic Agents	Lecture Video		D. DeRemer
9/11/20	3.2.5	Watch: Hormonal Antagonists	Lecture Video		D. DeRemer
	3.3	Pharmacology of Oncology Agents, Part II	Unit	1.50	D. DeRemer
9/11/20	3.3.1	Watch: Cancer Immunotherapy	Lecture Video		D. DeRemer
9/11/20	3.3.2	Watch: Small Molecule Inhibitors	Lecture Video		D. DeRemer
9/11/20	3.3.3	Watch: Monoclonal Antibodies	Lecture Video		D. DeRemer
	3.4	Medicinal Chemistry of Oncology Drugs	Unit	2.00	Luesch
9/11/20	3.4.1	Watch: Medicinal Chemistry of Oncology Drugs, Part 1	Lecture Video		Luesch
9/11/20	3.4.2	Watch: Medicinal Chemistry of Oncology Drugs, Part 2	Lecture Video		Luesch
	3.5	Personalized Medicine on Oncology	Unit	1.00	Lamba
9/14/20	3.5.1	Transcending Concept - Personalized Medicine: Oncology	Lecture Video		Lamba
	3.6	Transcending Concept - Evidence-based Practice: Superiority RCTs and PROs,	Unit	0.50	Patel
9/14/20	3.6.1	Watch: Oncology Trials	Lecture Video		Patel
	3.7	Lymphomas	Unit	1.00	D. DeRemer
9/14/20	3.7.1	Watch: Non-Hodgkins Lymphoma	Lecture Video		D. DeRemer
9/14/20	3.7.2	Watch: Hodgkins Lymphoma	Lecture Video		D. DeRemer
	3.8	Medicinal Chemistry of Anti-emetics	Unit	1.00	
9/15/20	3.8.1	Watch: Medicinal Chemistry of Anti-emetics, Part I	Lecture Video		Zheng
9/15/20	3.8.2	Watch: Medicinal Chemistry of Anti-emetics, Part II	Lecture Video		Zheng
	3.9	Therapeutics of Antiemetics	Unit	1.00	-
9/15/20	3.9	Watch: Nausea and Vomiting Therapeutics	Lecture Video		D. DeRemer
	3.10.0	Transcending Concept - Self-Care 1: Herbal & dietary supplements for the Immune System,	Unit	1.00	Grundmann
9/15/20	3.10.1	Watch: Self-care: Herbal and Dietary Supplements for the Immune System	Lecture Video		Grundmann
	3.11.0	Transcending Concepts** - Informatics / Interprofessional (SBAR) / Medication Safety and Patient Safety (Drug Therapy Problems Related to Access)	Unit	0.50	Atkinson
9/15/20	3.11.1	Watch: Patient Assistance Programs	Lecture Video		Atkinson

9/16/20 @ 10:40am-12:35pm	3.1-3.11	Q&A Session (2 hours)	Active Learning Session - Zoom	1.00	D. DeRemer
	3.1-3.11	Oncology Self-Assessment	Quiz (Self-Assessment)	0.00	D. DeRemer
9/16/20 @ 1:55-3:50pm	3.1-3.11	Active Learning Session 5 Part 1: Lymphoma, Nausea, and Vomiting in the Cancer Patient (2 hours)	Active Learning Session - Zoom	1.00	D. DeRemer, Luesch, Lamba, Grundmann, Patel
9/17/20 @ 1:55-3:50pm	3.1-3.11	Active Learning Session 5 Part 1: Lymphoma, Nausea, and Vomiting in the Cancer Patient (2 hours)	Active Learning Session--Classroom VC	1.00	D. DeRemer, Luesch, Lamba, Grundmann, Patel
	4	Module 4: Anemias	Module		
	4.1	Pathophysiology of Anemias	Unit	1.00	Khoury
9/16/20	4.1.1	Watch: Anemias: Pathophysiology, Clinical Presentation & Laboratory Evaluation, Part I	Lecture Video		Khoury
9/16/20	4.1.2	Watch: Anemias: Pathophysiology, Clinical Presentation & Laboratory Evaluation, Part 2	Lecture Video		Khoury
	4.2	Therapeutics of Anemias	Unit	1.00	Farland
9/17/20	4.2	Watch: Anemias: Specific Clinical Presentation & Treatment Options	Lecture Video		Farland
9/18/20 @10:40-12:35pm	4.1-4.2	Active Learning Session 6: Anemia (2 hours)	Active Learning Session - Zoom	1.00	Khoury, Farland
9/21/20 @8:30-12:35pm	1-4	Capstone (4 hours)	Active Learning Session - Zoom	2.00	Venugopalan
Due 9/18/20 @5:00pm		**Capstone Assignment**	**Assignment (Graded)**	**0.00**	
9/23/20 @ 2:00-4:00pm	1-4	Final Exam: Comprehensive (2.5 hours)	Exam	0.00	Patel
		Total Contact Hours in Course:		55.00	

Required Textbooks/Readings

1. Foye WO, Lemke T, Williams DA. Foye's Principles of Medicinal Chemistry, Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia, PA, 7th Edition, 2013. ISBN-13:978-1609133450; ISBN-10:1609133455
    a. Not Available via HSC Library (Purchased as a 1PD)
2. Brunton L. Goodman and Gilman's The Pharmacological Basis of Therapeutics, McGraw-Hill Professional, New York, NY, 12th Edition, 2011. ISBN-13:978-0071624428; ISBN-10:0071624422
    a. Available via HSC Library – Access Pharmacy
3. Dipiro, J, Talbert R, Yee G, Matzke G, Wells B, Posey L. Pharmacotherapy – A pathophysiologic approach. McGraw-Hill Professional, New York, NY, 10th Edition, 2017. ISBN 978-1-259-58748-1
    a. Available via HSC Library – Access Pharmacy
4. Krinsky DL, Ferreri SP, Hemstreet B, et al. Handbook of nonprescription drugs: An interactive approach to self-care. 18th ed. Washington, D.C.: American Pharmacists Association; 2015. ISBN-13: 978-1582122250
    a. 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/

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Suggested Textbooks/Readings

Suggested readings will be posted on 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.

[The Canvas© gradebook will be set-up using the percentages below to compute the grade.]

Assessment Item	**Grade Percentage**
iRATs (6)	10%
tRATs (6) –*Team Assessment*	15%
Active Learning Session 2 Assignment-*Individual Submission*	10%
Capstone Team Submission	5%
Exam 1-*Modules 1-2*	25%
Final Exam-*Comprehensive*	35%
Total	100%

Table 1.1 Evaluation and Grading Above

Table 1.2 grading scale

Percentage	**Letter Grade**
92.50-100%	A
89.50-92.49%	A-
86.50-89.49%	B+
82.50-86.49%	B
79.50-82.49%	B-
76.50-79.49%	C+
72.50-76.49%	C
69.50-72.49%	C-
66.50-69.49%	D+
62.50-66.49%	D
59.50-62.49%	D-
< 59.50%	E

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."

Makeup Assignments

Makeup assignments may be required for excused absences from all Active Learning Sessions. Students will be required to complete the makeup assignment within one week of the missed session.

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 General Pharm.D. Course Policies carefully, at this URL: http://curriculum.pharmacy.ufl.edu/current-students/course-policies/

Course Evaluation Process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

Appendix A. Course Directory

Teaching Partnership Leader/Course Director(s):

Priti N. Patel, Pharm.D., BCPS

Email: ppatel@cop.ufl.edu

Office Hours: Posted in Canvas

Questions to Ask:

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

Other Teaching Partnership Faculty Members:

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Academic Coordinator Gainesville Campus:

Misti Merrill

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- Phone: 352-294-5617

Absence/Tardy Email: absent2pd@cop.ufl.edu (Visit the course policy site for instructions)

Educational Coordinators

McKenzie Wallen

- Email: mwallen@cop.ufl.edu
- Office: Jacksonville Campus

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/tardy 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 in gradebook (missing grades, incorrect grade)
- Assistance with ExamSoft® (Distance campus students may contact the Educational
- 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.