

[PHA 5929] UF Precision Medicine Conference Seminar

Spring 2021

1 Semester Credit Hour Block 10 Satisfactory-Unsatisfactory Grading

Attendance at this conference develops knowledge and skills related to the latest strategies and technologies for bringing genomic medicine and pharmacogenomics into a clinic. Students will participate in a precision medicine conference along with clinicians, researchers and thought leaders from medicine and pharmacy to receive guidance on implementing genomic medicine and pharmacogenomics in a variety of clinic settings.

Teaching Partnership Leader

Kristin Wiisanen, Pharm.D., FAPhA

- Email: kwiisanen@cop.ufl.edu
- Office: HPNP 3308A/GNV
- Phone: 352-273-5114
- Office Hours: Please see the Canvas course site for posted office hours.

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

Entrustable Professional Activities

1. Analyze information to determine the effects of medication therapy, identify medication-related problems, and prioritize health-related needs. (2.0)
2. 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 (3.0)

Course-Level Objectives

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

1. Describe the current state of knowledge and emerging trends in precision medicine in clinical practice.
2. Apply genetic and pharmacogenetic data to solve complex patient cases.
3. Demonstrate the case for preemptive pharmacogenomic testing in a variety of clinical settings.
4. Describe challenges and solutions for the application of precision medicine in diverse patient populations.
5. Illustrate solutions to common precision medicine implementation barriers.
6. Discuss emerging ethical, legal and social implications in precision medicine, including liability and health disparity.

Course Pre-requisites

Successful completion of Blocks 1-9 of the Doctor of Pharmacy curriculum including milestones

Course Co-requisites

None required

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

<i>Date</i>	<i>Topic</i>	<i>Contact Hours</i>	<i>Faculty</i>
4/21/21	Course Syllabus/Orientation Materials available	N/A	Wiisanen
	View UF Precision Medicine Conference •View conference videos (See Canvas course page for instructions to view videos)		
Week 1 4/21-4/27	1: Evidence-Based Pharmacogenomics: A Crucial Piece of the Implementation Puzzle	1.25	Pacanowski, Cavallari
	2: Implementing Pharmacogenetic Testing at Sanford Health: Tales from the Front Lines	0.75	Baye
	3: Know the Score on Activity Scores: Applications for Patient Care in Clinical Pharmacogenomics	1.0	Gammal, Cicali
	4: Hot Topics in Clinical Pharmacogenomics	1.0	Smith, Hicks, Caudle
	5: Solving the Puzzle of Better Prescribing in the Era of Precision Medicine	1.0	O'Donnell
	6: Getting Started with Precision Medicine in Your Health System	1.0	Crawford, Schultz, Nelson
	7: Will Polygenic Risk Scores and Preventive Genomics Deliver in Precision Medicine?	1.5	Rich, Christensen, Kenny
Week 2 4/28-5/5	8: Overcoming Barriers to Widespread Adoption of Precision Medicine	1.5	Hoffman, Tzeng, Johnson
	9: Testing Newborns: Today and Tomorrow	1.0	Rasmussen, Farrer
	10: Precision Medicine Implementation in Oncology: The Mayo Clinic Perspective	1.0	Bagaria
	11: How will FDA Regulation of Pharmacogenetic Tests Impact Precision Medicine Implementation?	1.0	McCarthy
	12: Clinical Trial Design in Precision Medicine: What does the future hold?	1.0	Conley
	13: Practical Pearls for Interpreting Genomic and Pharmacogenomic Laboratory Reports	1.0	Cogle, Dennenberger

<i>Date</i>	<i>Assignment</i>	<i>Contact Hours</i>	<i>Faculty</i>
Week 1	Week #1 Assignments <ul style="list-style-type: none"> • Complete lecture videos 1-7 • Complete Supplemental Readings • Complete Discussion Board Assignment 1 (due 4/25 by 11:59 pm)* • Complete Reflection Assignment (due 4/27 by 11:59pm)* 	7.5 0.5 1.0	N/A
Week 2	Week #2 Assignments <ul style="list-style-type: none"> • Complete lecture videos 8-13 • Complete Supplemental Readings • Discussion Board Assignment 2 due 5/2 by 11:59pm • Complete Capstone Project <ul style="list-style-type: none"> ○ Capstone Project due 5/3 by 11:59pm • Course Examination will be open book and will be available from 5/4 at 7am through 5/5 at 11:59pm 	6.5 2.0 1.0	N/A
	Total	18.5 hr⁺	

*Complete instructions and assignments will be provided on the Canvas website for this course.

⁺Students must attend 12 of 14 hours of the Precision Medicine Conference

Course Assignments and Exam

Attendance

- Each week, students will be required to send an email to Dr. Wiisanen (kwiisanen@cop.ufl.edu) by Sunday at midnight at the end of each week with the following statement: "I attest that I completed all video lectures for this week's assignments and course activities" to verify that they have fully participated in watching all of the assigned course lectures for that week.

Discussion Board Assignments

- After completing the weekly Precision Medicine Conference video(s), students will complete a discussion board assignment. Individual questions can be found on the course Canvas page. Students are also encouraged to respond to posts of their fellow classmates.

Reflection Assignments

- Students will be respond to thought-provoking topics or questions based on presentation and discussions at the UF Precision Medicine Conference.

Capstone Project

- Description

Final Course Examination

- Description

Required Textbooks/Readings

- There are no required textbooks for this course.
- Handout materials and slides that are used during the conference will be made available to students for review and study.

Student Evaluation & Grading

To receive a passing grade, the student must satisfactorily complete all components listed below.

Assessment Item	Criteria for Satisfactory Grade
<u>Attendance</u> : Student must attend/view recordings of at least 12 hrs. of conference.	≥12 hrs. = Satisfactory <12 hrs. = Unsatisfactory
<u>Assignment</u> : Student must complete Discussion Board Assignments by deadline	Discussion Board Assignment Complete = Satisfactory Discussion Board Assignment Incomplete = Unsatisfactory
<u>Reflection Assignment</u> : Student must successfully complete Reflection Assignment by deadline	≥69.5% = Satisfactory <69.5% = Unsatisfactory
<u>Capstone Assignment</u> : Student must successfully complete Reflection Assignment by deadline	≥69.5% = Satisfactory <69.5% = Unsatisfactory
<u>Course Examination</u> : Student must successfully complete Reflection Assignment by deadline	≥69.5% = Satisfactory <69.5% = Unsatisfactory
Total	Satisfactory grade must be achieved on each of the above items to receive a satisfactory grade in the course.

Rounding of grades: In grading of the exam, grades 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](http://curriculum.pharmacy.ufl.edu/current-students/technical-help/) 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](http://curriculum.pharmacy.ufl.edu/current-students/course-policies/) carefully, at this URL:
http://curriculum.pharmacy.ufl.edu/current-students/course-policies/

Appendix A. Course Directory

Teaching Partnership Leader/Course Director:

Kristin Wiisanen, Pharm.D., FAPhA

- Email: kweitzel@cop.ufl.edu
- Office: HPNP 3308A/GNV
- Phone: 352-273-5114
- Office Hours: By appointment ONLY.

Office Hours: By appointment ONLY **Questions to Ask:**

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

Course Faculty/Presenters*

Julie A. Johnson, Pharm. D.

Dean and Distinguished Professor, College of Pharmacy

Director, UF Health Personalized Medicine Program

Member of the National Academy of Medicine

Department of Pharmacotherapy and

Translational Research

University of Florida University of Florida

College of Pharmacy

Jordan Baye, Pharm.D., M.A.

Assistant Professor

Sanford Health, South Dakota State University

D. Maxwell Smith III, Pharm.D., BCPS

Clinical Pharmacogenomics Specialist

MedStar Health

Washington, DC

Peter H. O'Donnell, M.D.

Associate Professor of Medicine

Department of Medicine

University of Chicago

David R. Nelson, M.D.

Senior Vice President for Health Affairs and

President of UF Health

Director, UF Clinical and Translational Science Institute

University of Florida College of Medicine

Eimear E. Kenny, Ph.D.

Founding Director, Center for Genomic Health

Associate Professor, Medicine, General

Internal Medicine

Associate Professor, Genetics and Genomic Sciences

Sonja A. Rasmussen, MD, MS

Professor, Pediatrics and Epidemiology

Colleges of Medicine and Public Health and

Health Professions University of Florida,

Gainesville, FL

Pamela Trapane, M.D.

Professor

Department of Pediatrics

Division of Pediatric Genetics

Chief, Division of Pediatric Genetics

Barbara Conley, M.D.

Associate Director of the Cancer Diagnosis

Program (CDP)

Division of Cancer Treatment and Diagnosis

National Cancer Institute

Michael Pacanowski, Pharm.D.

Associate Director for Genomics and Targeted Therapy

Food and Drug Administration

Roseann Gammal Pharm.D.

Assistant Professor of Pharmacy Practice,

Massachusetts College of Pharmacy and Health Sciences (MCPHS)

J. Kevin Hicks, Pharm.D., Ph.D.

Personalized Medicine Specialist

Department of Individualized Cancer

Management

Moffitt Cancer Center

James Crawford, M.D., Ph.D.

Professor, Donald and Barbara Zucker

School of Medicine at Hofstra/Northwell

Stephen Rich, Ph.D.

Professor

Director, Center for Public Health Genomics

University of Virginia Health System

James M. Hoffman, Pharm.D., M.S.

Associate Member, St. Jude Faculty

Chief Patient Safety Officer

St. Jude Children's Research Hospital

Matthew Farrer, Ph.D.

Professor of Neurology

Director of the Clinical Genomics Program, UF

Clinical and Translational Science Institute

University of Florida

Sanjay P. Bagaria, M.D.

Mayo Clinic, Jacksonville

Christopher R. Cogle, MD

Professor, Hematology and Oncology

University of Florida College of Medicine

Larisa H. Cavallari, Pharm.D., BCPS, FCCP

Associate Professor of Pharmacotherapy and Translational Research

Director, Center for Pharmacogenomics

University of Florida

Emily J. Cicali, Pharm.D.

Clinical Assistant Professor

University of Florida College of Pharmacy

Kelly E. Caudle, Pharm.D., Ph.D.

Clinical Pharmacogenetics Implementation

Consortium (CPIC) Director

St. Jude Children's Research Institute

April Schultz, Pharm.D., R.Ph.

Clinical Pharmacists

Manager – Pharmacogenetics

Sanford Imagenetics

Kurt D. Christensen, Ph.D.

Instructor Population Medicine

Harvard Pilgrim Health Care Institute

Instructor Department of Population Medicine

Harvard Medical School

Kathy Tzeng, Ph.D.

Senior Distinguished Engineer and Research

Fellow

UnitedHealth Group R&D

Alexander Parker, Ph.D., M.S.

Professor, Urology and Epidemiology

Mayo Clinic, Jacksonville, FL

Jeanette McCarthy, M.P.H., Ph.D.

Founder

Precision Medicine Advisors

Mark Dunnenberger, PharmD, BCPS

Director of Pharmacogenomics, Center for

Personalized Medicine

NorthShore University Health System

Medicine, Chicago, IL

*Due to the live nature of content delivery, please direct specific questions regarding presentation content to Dr. Wiisanen.

Instructional Designer

Holly Fremen

Instructional Designer

Email: holly.fremen@ufl.edu

Academic/Education Coordinators:

Misti Merrill

Academic Coordinator

Email: mmerrill@cop.ufl.edu

Office: HPNP 4312/GNV

Phone: 352-273-6523

Absent/Tardy Email: absent3pd@cop.ufl.edu

McKenzie Wallen

Education Coordinator

Email: mwallen@cop.ufl.edu

Office: Jacksonville Campus

Iverta Allen

Education Coordinator

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 SofTest and assistance during exams. The Academic Coordinator is the contact person for issues related to grading and posting of ExamSoft grades.)