

# **INTEGRATED PHARMACOTHERAPY 4 (IP4)**

**ORIENTATION**

**SPRING 2021**

# **IP4 COORDINATING TEAM 2021**

Course Coordinators	Module Science Coordinators	Module Therapeutic Coordinators	Small Group Coordinator
<p>Vinita Pai  <a href="mailto:Vinita.pai@nationwidechildrens.org">Vinita.pai@nationwidechildrens.org</a></p>	<p><b>Oncology</b>  Pharmacology  Dale Hoyt  <a href="mailto:Hoyt.27@osu.edu">Hoyt.27@osu.edu</a>  Medicinal Chemistry  Tom Li  <a href="mailto:li.27@osu.edu">li.27@osu.edu</a></p>	<p><b>Oncology</b></p> <ul style="list-style-type: none"> <li>Heather Armbruster  <a href="mailto:heather.armbruster@osumc.edu">heather.armbruster@osumc.edu</a></li> <li>Tyler Dickerson  <a href="mailto:tyler.dickerson@osumc.edu">tyler.dickerson@osumc.edu</a></li> </ul>	<p>Zach Woods  <a href="mailto:Woods.835@osu.edu">Woods.835@osu.edu</a></p>
	<p><b>Critical Care</b>  Casey May  <a href="mailto:casey.may@osumc.edu">casey.may@osumc.edu</a></p>	<p><b>Critical Care</b>  Casey May  <a href="mailto:casey.may@osumc.edu">casey.may@osumc.edu</a></p>	<p><b>Education Coordinator</b></p>
		<p><b>Special Populations</b>  Vinita Pai</p>	<p>Tanya Bomsta  <a href="mailto:Bomsta.1@osu.edu">Bomsta.1@osu.edu</a></p>

# SPRING 2020 COURSE SCHEDULE

## Structure of the schedule

### Asynchronous Activities

- Students do not attend” class at a set time
- Access pre-recorded lectures and digital curriculum materials
- Communicate through email and discussion boards

### Synchronous Activities

- Online or distance education that happens in real time,
- Has a set class schedule and required login times
- Currently limited to introduction to the course, small groups, exam reviews, and office hours - some required and not recorded, some optional and recorded

# SPRING 2020 COURSE SCHEDULE – STRUCTURE

IP4-Spring-2021-Schedule¶			
Peach-colored-lines-indicate-synchronous-sessions.¶			
Oncology/Hematology-Module¶			
Week-1-¶			
Basics-of-Oncology¶			
Tuesday-1/12¶			
Time-or-Asynchronous¶	Topic¶	Instructor¶	Estimated-time-(hrs)¶
8:30-10:30-AM¶	IP4-Course-Introduction-Question-and-Answer-Session¶ Topic-Introduction-Case:-Cancer-— <b>Optional/Recorded</b> ¶	Pai/Woods/Armbruster/Dickerson¶	2¶
Asynchronous¶	PCOL:-Cancer-Biology/Cytotoxics¶	Dale-Hoyt¶	4¶
Asynchronous¶	MC:-Cytotoxics¶	Werbovetz¶	3¶
¶	¶	¶	<b>7-¶</b>
Wednesday-1/13¶			
Asynchronous¶	MC:-Cytotoxics¶	Werbovetz¶	1¶
Asynchronous¶	Therapeutics:-Cytotoxic-adverse-effects-and-management¶	Dat-Le-(Resident)¶	2-¶
¶	¶	¶	<b>3¶</b>
Thursday-1/14¶			
Asynchronous¶	Basic-Hematopoiesis/Anemia/¶ Myelosuppression-(neutropenia, thrombocytopenia,-Anemia)- <b>End-of-Exam-1-content</b> ¶	Brackett/Armbruster¶	3¶
Synchronous-2:30-to-3:30-PM¶	<b>Exam-1-review-session-(Optional-Recorded)</b> ¶	Hoyt/Werbovetz/Li/Armbruster¶	1¶
Asynchronous¶	PCOL:-Cancer-Biology/Kinase-Inhibitors¶	Dale-Hoyt¶	3¶
¶	¶	¶	<b>7¶</b>
Friday-1/15¶			
¶	¶	¶	<b>¶</b>
Total-(required)-weekly-content-hours,-including-exams:-17¶			

# SPRING 2020 COURSE – DIFFERENCES FROM PREVIOUS COURSE OFFERINGS

---

**BEFORE**

Lectures in person

**BEFORE –**

Flipped classroom

**NOW**

Lectures recorded

**NOW**

Lectures recorded;  
Application  
activities for online  
content

# RECORDING CONTENT

- Will need all content at least **3** weeks before the day your content is scheduled
  - Slides (PDF or Powerpoint), recorded lecture, application activities content, exam questions
- COP Faculty to use Echo 360 for recording;  
All other instructors will use Zoom for recording
- Step by step resource for recording lectures
  - <https://u.osu.edu/copoeis/how-to-record-a-lecture-for-the-ip-sequence/go.osu.edu/ipresources>

# Student View of Content in Carmen

## TOPIC #: Alzheimer's disease

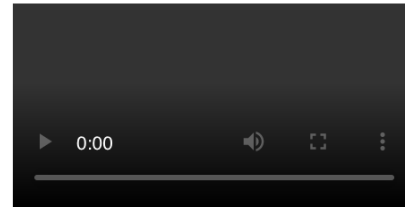
**Lecturer:** Ruth Emptage, [emptage.8@osu.edu](mailto:emptage.8@osu.edu)

**Estimated time to complete:** 15 minutes

**To Complete:**

1. Watch the lecture below.
2. Complete this [quiz](#).

### Recorded Lecture



*Video (3 minutes, 3 seconds)*

### Additional Materials

- [Slides \[PDF\]](#) 
- Direct link to video: [https://stream.pharmacy.ohio-state.edu/lectures/instr-des/PHR7603/Emptage\\_AlzheimersDisease/index.html](https://stream.pharmacy.ohio-state.edu/lectures/instr-des/PHR7603/Emptage_AlzheimersDisease/index.html) 
- Video Transcript [*coming soon!*]

### Learning Objectives

1. Identify the 10 Warning Signs of Dementia
2. Describe epidemiology of Alzheimer's disease and summarize why incidence is increasing in the US
3. Distinguish between dementia, mild cognitive impairment and delirium
4. Explain the pathologic features of Alzheimer's disease
5. Know the basic neurocognitive screening tools for dementia
6. Identify the stages of Alzheimer's disease



## TOPIC EXAMS AND COMPREHENSIVE FINAL EXAM (CFE)

- Similar structure to previous course offerings
- ExamSoft will be used for ALL exams, remotely
- Exam questions need to be submitted in the format provided by Tanya Bomsta
- **Brief rationales will need to be submitted along with the questions**
- Students will be able to read the rationale but cannot see the question or answer choices
- Students will still be able to provide feedback via ExamSoft for questions they feel were confusing or had formatting issues
- Proctoring mechanism is available to maintain exam integrity

# APPLICATION ACTIVITIES FOR ONLINE FORMAT

- Purpose: To reinforce and apply content that was provided during instructor recorded content
- **STRONGLY ENCOURAGE** the content experts for the topics not covered via small group sessions
- Used to deliver content covered in Flipped Classroom in 2020

Oncology Exam 1	Cytotoxic adverse effects and management
Oncology - Exam 2	Colorectal Cancer Melanoma
Oncology Exam 3	CLL Lymphoma Multiple Myeloma
Oncology - Exam 4	Management of the following in cancer patients VTEs Anemia Neutropenia Thrombocytopenia Fevers in neutropenic patients Chemotherapy Induced Nausea/Vomiting
Critical Care – Exam 5	Hemodynamics and Shock Sepsis PADIS Stroke Acid-Base Emergency Response
Special Populations – Exam 6	Nutrition

# TOPICS FOR APPLICATION ACTIVITIES

---

# APPLICATION ACTIVITIES FOR ONLINE FORMAT

---

## Application cases with multiple choice questions in Carmen followed by

- Content expert fully explaining rationale for correct answer choices via a recorded section or
- Providing a written key explaining the rationale for correct answers
- Additional, synchronous Q and A office hours – need to be scheduled

## Application cases with open-ended questions

- The case and open-ended questions provided to the student ahead of time
- The answers to the questions would be provided via a recorded session or in a written format

## COMMUNICATION PRACTICES

- **Content specific questions**
  - Students post to Q&A Discussion Board (monitored by course coordinators)
  - Students e-mail content instructor and copy the course coordinators
- **Assignment questions** – If you do not understand what is being asked of you for an assignment,
  - Contact course coordinator (Vinita Pai) and education coordinator (Tanya Bomsta)
- **Small group questions** – email Dr. Zach Woods
- **ExamSoft or Carmen questions** – email Tanya Bomsta

# TEACHING TEAM MEETINGS

- Scheduled 4 weeks ahead of the content delivery week
- Should have received a calendar invite
- Meetings are important to maintain continuity and consistency of content between basic sciences and therapeutics
- Go to <https://u.osu.edu/ipsequence/resources/> for resources

# TEACHING TEAM MEETINGS

Teaching Team Meeting Agenda: (come prepared to share plan for your course content)

- 5 minutes for each instructor to share course content plan
- Method of instruction
- Amount of student time required to
  - listen to the recorded lecture
  - do application activities
- List of medications covered (class or specific agents)
- Does your content have any specific “Pandemic Problems”
- Small Group Discussion
- Engagement Points Determination
- Exam/Content Expectations

## INSTRUCTOR RESPONSIBILITIES

- Attend Teaching Team meetings **4 weeks** before scheduled lecture
- Record content; create application activities, if applicable
- Submit course materials and exam questions (including CFE questions) **3 weeks** before teaching day
- Dr. Zach Woods will contact you for Small Group materials, if applicable



# SMALL GROUP – STRUCTURE

## **Goal: Application, feedback, practice of therapeutic topics**

- Team-Based Learning (TBL)
- iRAT/tRAT assessment
- Mini lectures
- Case discussions - w/expert feedback
- Reflection and submission
- Zach will reach out to those involved

# Student Time Commitment

- *We (the students) currently do not have the bandwidth to accommodate the 4 hours of the 2020 eLearning topics as additional material to the 18 hours a week of scheduled activity.*
- *A strong recommendation is to be very selective in assigning additional activities outside of the scheduled synchronous and asynchronous activities*
- *The recommendation is to absorb **the “eLearning” of 2020 or additional material of 2021** into the scheduled activities as much as possible*

# QUESTIONS?

- Vinita Pai, [vinita.pai@nationwidechildrens.org](mailto:vinita.pai@nationwidechildrens.org)
- Zach Woods, [woods.835@osu.edu](mailto:woods.835@osu.edu)
- Tanya Bomsta, [bomsta.1@osu.edu](mailto:bomsta.1@osu.edu)
- IP Resources Website: [go.osu.edu/ipresources](http://go.osu.edu/ipresources)
- OEIS Website and Resources: [go.osu.edu/copoeis](http://go.osu.edu/copoeis)