

Antineoplastic Therapy and Immunotherapy Course

UPMC Hillman Cancer Center: Virtual via MS Teams

Day One: Wednesday, October 4, 2023

Day Two: Wednesday, October 11, 2023

Day Three: Wednesday, October 18, 2023

Day Four: Wednesday October 25, 2023

Test Date: Wednesday, November 8, 2023

Learning Objectives

After participation in this activity, the learner will be able to:

- Discuss the expectations related to class content and the participant's professional responsibilities
- Discuss the roles of antineoplastic therapy and immunotherapy in the treatment of cancer
- Recall the pharmacology of different classes of antineoplastic and supportive therapies
- Recognize side effects and organ toxicities that patients may experience while receiving antineoplastic and supportive therapies
- Discuss management strategies for patients receiving antineoplastic and supportive therapies, including the prevention and treatment of toxicities and side effects
- Describe the safe administration of antineoplastic and supportive therapies
- Identify interventions to prevent chemotherapy errors
- Develop a patient care management plan for a patient receiving antineoplastic therapies and supportive therapies
- Identify three resources for oncology healthcare providers to utilize
- Demonstrate that learning has occurred by achieving at least an 80% on the final exam

Agenda

Day 1: Wednesday, October 4, 2023

8:00 am	Course Overview	Lynne O'Connor, MSN, RN, OCN
8:20 am	Genetics vs. Genomics	Melissa K. Bourdus, MS, CGC
9:10 am	Alkylating Agents	Trish Seaman, MSN, RN, CMSRN
10:10 am	Break	
10:20 am	Tyrosine Kinase Inhibitors: Part One	Amanda Agnew, PharmD, BCOP
11:05 am	Tyrosine Kinase Inhibitors: Part Two	Jason Steele, PharmD, BCOP
12:00 pm	Lunch	
12:45 pm	Principles of Antineoplastic Drug Therapy	Ernie Sanchez, PharmD
1:35 pm	Miscellaneous Agents	Tim Brenner, PharmD, BCOP
3:35 pm	Post Class Instructions	Lynne O'Connor, MSN, RN, OCN
3:45 pm	Adjournment	Lynne O'Connor, MSN, RN, OCN

Agenda

Day 2: Wednesday October 11, 2023

8:00 am	Welcome	Lynne O'Connor, MSN, RN, OCN
8:10 am	Hypersensitivity	Alyssa Owens, MPAS, PA-C
8:50 am	Hormone Therapy: Breast Cancer	Courtney Stetor, MPAS, PA-C
9:20 am	Cytokines, L Asparaginase, and Vaccine Therapy	Tim George, PharmD, BCOP
10:20 am	Break	
10:30 am	Antitumor Antibiotics	Brian Miller, PharmD
11:45 am	Chemotherapy Protectants	Lynne O'Connor, MSN, RN, OCN
12:20 pm	Lunch	
1:00 pm	Understanding Organ Toxicity: Management and Adverse Events of Chemotherapy	Linda Pfeifer, CRNP, RN
2:00 pm	Antimetabolites	Tim George, PharmD, BCOP
3:15 pm	Post Class Instructions	Lynne O'Connor, MSN, RN, OCN
3:30 pm	Adjournment	Lynne O'Connor, MSN, RN, OCN

Agenda

Day 3: Wednesday, October 18, 2023

8:00 am	Welcome	Lynne O'Connor, MSN, RN, OCN
8:05 am	Oral Adherence	Nancy Birus, MSN, RN, OCN
8:40 am	Extravasation	Nancy Birus, MSN, RN, OCN
9:20 am	CAR-T Therapy	Shrina Duggal, PharmD, BCOP
10:10 am	Break	
10:20 am	Monoclonal Antibodies: Part One	Melissa Bastacky, PharmD, BCOP
11:25 am	Error Prevention	Amy DiMaggio, MSN, RN, CMSRN, OCN
12:05 pm	Lunch	
12:35 pm	Administration	Markie Rearick, MSN, RN, BMTCN
1:35 pm	Growth Factors	Emily Mueseler MPAS, PA-C
2:05 pm	Break	
2:15 pm	Monoclonal Antibodies: Part Two	Melissa Bastacky, PharmD, BCOP
3:25 pm	Post Class Instructions	Lynne O'Connor, MSN, RN, OCN
3:45 pm	Adjournment	Lynne O'Connor, MSN, RN, OCN

Agenda

Day 4: Wednesday, October 25, 2023

8:00 am	Welcome	Lynne O'Connor, MSN, RN, OCN
8:05 am	Plant Alkaloids	Nicole Kahler, DNP, CRNP, AOCNP
8:45 am	Hormone Therapy: Prostate Cancer	Tom Boyer, PA-C
9:15 am	Homework Review	Lynne O'Connor, MSN, RN, OCN
10:00 am	Break	
10:10 am	Case Study	Brittini Prosdocimo, MSN, RN, BMTCN
10:40 am	Review/Jeopardy	Amy DiMaggio, MSN, RN, OCN Lynne O'Connor, MSN, RN, OCN Brittini Prosdocimo, MSN, RN, BMTCN
11:45 am	Post Class Instructions	Lynne O'Connor, MSN, RN, OCN
12:00 pm	End of Class/Adjournment	Lynne O'Connor, MSN, RN, OCN

Course Exam

UPMC Employees:

You will take course exam on your business unit as specified by your manager. The electronic test will be taken virtually in HR Direct - Learning on Wednesday, November 8, 2023. The following information must be provided to course director by [Wednesday, October 18, 2023 \(Day 3\) via email to Lynne O'Connor at OConnorLJ@upmc.edu](mailto:OConnorLJ@upmc.edu)

- Name of exam proctor and contact information
- Test date (if other than scheduled test date)

Non-UPMC Attendees:

You will complete a paper test at your business unit as directed by your manager on the same day as the UPMC employees. The following information must be provided to course director by [Wednesday, October 18, 2023 \(Day 3\) via email to Lynne O'Connor at OConnorLJ@upmc.edu](mailto:OConnorLJ@upmc.edu)

- Name of exam proctor and contact information
- Test date (if other than scheduled test date)

Faculty Listing

*Amanda Agnew, PharmD, BCPS,
BCOP
Clinical Oncology Pharmacist
UPMC Hillman Cancer Center*

*Melissa Bastacky, PharmD, BCOP
Clinical Pharmacy Specialist
UPMC Hillman Cancer Center*

*Nancy Birus, MSN, RN, OCN
Clinical Education Specialist
UPMC Hillman Cancer Center*

*Melissa K. Bourdus, MS, CGC
Genetics Counselor
Special Genetic Counsel
UPMC Magee-Womens Hospital*

*Tom G. Boyer, PA-C
Physician Assistant
University of Pittsburgh Physicians*

*Tim Brenner, PharmD, BCOP
Clinical Pharmacy Specialist
UPMC Hillman Cancer Center*

*Amy DiMaggio, MSN, RN, OCN
Clinical Education Specialist
UPMC Hillman Cancer Center*

*Shrina Duggal, PharmD, BCOP
Lead Clinical Oncology Pharmacist
UPMC Hillman Cancer Center*

*Timothy George, PharmD, BCOP
Clinical Pharmacy Specialist
UPMC Hillman Cancer Center*

*Nicole Kahler, DNP, CRNP, AOCNP
Nurse Practitioner
University of Pittsburgh Physicians*

*Brian Miller, PharmD
Manager, Investigational Drug Services
Pharmacy
UPMC Hillman Cancer Center*

*Emily Mueseler, MPAS, PA-C
Physician Assistant
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*Lynne O'Connor, MSN, RN, OCN
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*Alyssa Owens, MPAS, PA-C
Physician Assistant
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*Linda Pfeifer, CRNP, RN
Nurse Practitioner
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*Brittini Prosdocimo, MSN, RN, BMTCN
Advanced Clinical Education Specialist
UPMC Hillman Cancer Center*

*Markie Rearick, MSN, RN, BMTCN
Clinical Education Specialist
UPMC Shadyside*

*Ernest M. Sanchez, Pharm.D.
Lead Pharmacist of Oncology
Operations, Department of
Pharmacy
UPMC Shadyside Hospital*

*Trish Seaman, MSN, RN, CMSRN
Nurse Educator, Central PA
UPMC Hillman Cancer Center*

*Jason Steele, PharmD, BCOP
Oncology Clinical Pharmacist
UPMC Hillman Cancer Center*

*Courtney Stetor, MPAS PA-C
Physician Assistant
UPMC Hillman Cancer Center*

Contact Hours

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

The University of Pittsburgh has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 25.25 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

The maximum number of hours awarded for this Continuing Nursing Education activity is 25.25 contact hours.

To receive 25.25 Contact Hours, the learner must sign into each class, attend the entire activity, each class day submit roster for each day or sign roster electronically in meeting. Evaluation will be completed on CCE website after passing the test.

Disclosure of Conflicts of Interest

All individuals in a position to control the content of this education activity are required to disclose all relevant financial relationships with any proprietary entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The following information was provided:

Amanda Agnew, Nancy Birus, Melissa K. Bourdus, Thomas G. Boyer, Timothy Brenner, Amy DiMaggio, Nicole Kahler, Emily Mueseler, Lynne O'Connor, Alyssa Owens, Linda Pfeifer, Markie Rearick, Brittini Prosdocimo, Ernest Sanchez, Trish Seaman, Courtney Stetor, and the planning committee for this activity did not have any relevant financial relationships with a commercial interest.

The following information was disclosed:

Melissa Bastacky: Stockholder: CVS Health
Shrina Duggal: Consultant Up ToDate; CE Speakers Bureau: Astellas, Pfizer, Incyte
Timothy George: Stockholder: Syros Pharmaceuticals; Valneva
Brian Miller: Grant/Research Support: F-Star Therapeutics; HiberCell Inc.; Istari Oncology, Inc
Jason Steele: Stockholder: Abbvie