

Foundations to Practice: Pathophysiology of Cancer, Cancer Treatment Modalities, and the Immune System

This course provides an overview of the principles and roles of various cancer therapies, including clinical trials, surgery, antineoplastic and immunotherapy, radiation therapy, stem cell transplantation, complementary therapy, and a review of the pathophysiology of cancer, and the immune system.

This course is strongly recommended as a prerequisite for the Antineoplastic Therapy and Immunotherapy Course. All courses are sponsored by UPMC Hillman Cancer Center. The faculty consists of healthcare professionals with expertise in cancer care at UPMC.

Time and Location:

This course will be held virtually via Microsoft Teams. Exact class schedule will be provided in the confirmation letter sent via e-mail one week prior to the class. Electronic registration begins at 7:45 a.m. and lectures begin promptly at 8:00 a.m. The course concludes at approximately 4:00 p.m.

Who Should Attend:

This course is designed for healthcare professionals who care for oncology patients in various settings. Other healthcare professionals who wish to expand their knowledge of cancer care are also welcome to attend.

Continuing Education Credit:

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.



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

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 7 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 7 contact hours.

To receive 7 Contact Hours, the learner must sign into each class day via Microsoft Teams, attend the entire class day, and pass the exam with an 80% or greater. Following test completion, the learner will complete the evaluation and claim continuing education credit.

Registration Information:

All UPMC employees are required to register for educational programs through Learning via HR Direct. Employees may access HR Direct by logging on the UPMC Infonet. A user guide is available on the Infonet. Manager approval may be required for some programs for some employees. If you receive this notice when enrolling, please notify your manager of your interest in the program.

Non-UPMC employees may register for the course by submitting a course registration form to the course director. Registration forms are located on the UPMC Hillman Cancer Center Professional Education Website <https://hillman.upmc.com/health-care-professionals/education/courses>

The registration fee for this individual course for virtual attendance is \$40. The registration fee for all five courses within the series virtually is \$150. Tuition is waived for employees of UPMC and UPMC affiliates. Deadline for registration is one week before the course date.

Confirmation letters are emailed to all registrants one week prior to class and contain activity information sheet, course workbook and slide decks, registration for CE credit, as well as other details.

If you have any questions, need more information, or do not receive a confirmation prior to the course, contact Amy DiMaggio at dimaggioa@upmc.edu

Cancellation Policy:

- If you cannot attend any course for any reason, you need to directly notify the course registrar by calling 412-623-3651 and leaving a voicemail message or by emailing Amy DiMaggio at dimaggioa@upmc.edu.
- The course schedule is not changed by school delays.
- For class cancellations, an announcement will be available at 412-623-3651 and an email will be sent to class attendees.
- The program sponsors reserve the right to make changes or cancel the program because of unforeseen circumstances.

Personal Accommodations:

Please indicate any personal accommodations you may need for the program, such as a sign language interpreter, large print or Braille conference materials, wheelchair height tables, accessible parking, or other. Please call 412-623-3651 or email Amy DiMaggio at dimaggioa@upmc.edu two weeks prior to the program if you need any personal accommodations to participate.

Course Objectives

At the end of the course, participants will be able to:

- Recall the pertinence of carcinogenesis, cell differentiation, and the tumor microenvironment in malignant disease.
- Describe the impact of disparity, equality, and the social determinants of health for the oncology patient.
- Compare and contrast the various treatment modalities and the coinciding adverse effects for the cancer patient.
- Apply principles of alternative and complementary medicine as a treatment modality.
- Discuss the immune system's function in the development and treatment of cancer.
- Identify goals of treatment for patients with cancer and barriers that may exist for the patient and the clinician.
- Recall the role of clinical trials in treating patients with cancer.

Course Content

- Cancer Disparities
- Chemotherapy, Hormonal Therapy, and Immunotherapy
- Clinical Trials
- Evaluating Complementary Therapies
- Goals of Treatment and Treating on Time
- The Immune System and Immunotherapy
- Pathophysiology of Cancer
- Radiation Therapy
- Stem Cell Transplant and CAR T-Cell Therapy
- Surgery