

Stem Cell Transplant (SCT) Course

This two-day course addresses the individual and joint needs of nursing, pharmacy, and other professions in relation to Stem Cell Transplantation. It includes information on current transplantation issues such as patient work-up, disease processes, patient care, and management. Selected topics include differentiating types of transplants, mobilization and preparative regimens, growth factors, the role of total body irradiation, transfusion issues, graft versus host disease, CAR T-Cell therapies, and other transplant related topics.

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 email 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:

The course is designed for registered nurses and other healthcare professionals involved in caring for patients undergoing stem cell transplant. Six months to one year of oncology experience and the completion of the Foundations to Practice Series (Pathophysiology of Cancer, Cancer Treatment Modalities, and the Immune System; Overview of Solid Tumors; Symptom Management of Patients with Cancer; Oncology Emergencies and Advanced Cancer Care Issues; and Hematological Malignancies), and Antineoplastic Therapy and Immunotherapy Course or other introductory cancer courses *are strongly recommended*.

Continuing Education Credit: Directly Sponsored

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.



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INTERPROFESSIONAL CONTINUING EDUCATION

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Registration Information:

All UPMC employees are required to register for educational programs through Learning via HR Direct. Employees may access HR Direct 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 virtual attendance is \$75. Tuition is waived for employees of UPMC and UPMC affiliates.

Deadline for registration is one week before the course date.

Class confirmation is sent via email to all registrants one week prior to class. Confirmation email contains the following: Activity information sheet (agenda), course slide decks, registration link for CEU credit, as well as other details. If you have any questions, need more information, or do not receive confirmation prior to the course, contact Lynne O'Connor at oconnorlj@upmc.edu.

Cancellation Policy:

- If you cannot attend any course for any reason, you need to directly notify the course registrar by calling 412-623-3661 and leaving a voicemail message or by emailing Lynne O'Connor at oconnorlj@upmc.edu.
- For class cancellations, an announcement will be sent via email 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. Please call 412-623-3661 or email Lynne O'Connor at oconnorlj@upmc.edu two weeks prior to the program if you need any personal accommodations to participate.

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Objectives

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

1. Explain the role of stem cell transplantation in the treatment of cancer and other selected diseases.
2. Differentiate between autologous, allogeneic, haploidentical, and cord blood transplantation and examine their respective indications in the treatment of hematologic malignancies.
3. Explain the purpose of preparative (conditioning) regimen chemotherapy and identify appropriate regimens based on disease characteristics and patient comorbidities.
4. Describe the transfusion requirements for patients undergoing or recovering from stem cell transplantation.
5. Identify interventions to manage transplant-associated complications, including acute and chronic graft-versus-host disease, infections, and organ toxicities.
6. Describe the steps of the stem cell transplant process, including pre-transplant evaluation, mobilization, cell collection, and infusion.
7. Identify strategies for managing infusion-related complications in patients and donors.
8. Explain the principles of HLA typing and donor selection criteria for allogeneic and haploidentical stem cell transplantation.
9. Explain the cause and clinical importance of immunosuppression in the stem cell transplant population.
10. Identify the role rehabilitation resources in supporting patients undergoing stem cell transplantation.
11. Describe short-term and long-term follow-up requirements and needs and integrate survivorship care planning and patient education across the transplant continuum of care.
12. Summarize the clinical background of chimeric antigen receptor (CAR) T-cell therapy and identify disease states for which this therapy is indicated.
13. Explain the principles and components of outpatient management of the stem cell transplant recipient
14. Identify and apply nursing care considerations specific to patients receiving CAR T-cell therapy.

Course Content

- Acute Graft Versus Host Disease
- CAR T-Cells: Clinical Background
- Chronic Graft Versus Host Disease
- Conflict at the Bedside
- Discharge Teaching and Follow Up
- Haploidentical Transplant
- HLA Typing
- Immunosuppression
- Infections: Risks, Prophylaxis, Treatment
- Mobilization, Growth Factors, and Collection
- Organ Complications
- Outpatient Care of the Stem Cell Transplant Patient
- Overview of Transplant
- Preparative Regimens

- Pre-Transplant Evaluation
- Psychosocial Issues During Transplant
- RN Care of the CAR T-Cell Patient
- Role of Rehabilitation in SCT
- Stem Cell Administration: Management, Patient Education and Troubleshooting
- Transfusion Issues in SCT