

## **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 process, 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 both on the UPMC Shadyside campus in the Shadyside section of Pittsburgh, PA and virtually via Microsoft Teams. Exact class schedule and location will be provided in the confirmation letter sent one week prior to the class. Registration begins at 7:30 a.m. and lectures begin promptly at 8:00 a.m. The course concludes at approximately 4:30 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.

### **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.

Confirmation letters are emailed to all registrants one week prior to class. Confirmation letters contain directions to the site, information on parking, registration 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 Brittini Prosdocimo at [bittnerb@upmc.edu](mailto:bittnerb@upmc.edu).

**Cancellation Policy:**

- If you cannot attend any course for any reason, you need to directly notify the course registrar by calling 412-623-3671 and leaving a voicemail message or by emailing Brittini Prosdocimo at [bittnerb@upmc.edu](mailto:bittnerb@upmc.edu).
- If Pittsburgh Public Schools are closed due to treacherous road conditions prior to 6 a.m., our courses may be cancelled or adjusted to virtual attendance only. The course schedule is not changed by school delays.
- For any adverse weather conditions, please use your best judgment.
- For class cancellations, an announcement will be available at 412-623-3671 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; sign language interpreter, large print conference materials, Braille conference materials, wheelchair height tables, vegetarian meals, diabetic meals, accessible parking, or other. Please call 412-623-3671 or email Brittini Prosdocimo at [bittnerb@upmc.edu](mailto:bittnerb@upmc.edu) two weeks prior to the program if you need any personal accommodations to participate.

# Stem Cell Transplant (SCT) Course

## Objectives

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

1. Discuss the role of stem cell transplant in cancer and other diseases.
2. Compare and contrast the role of autologous, allogeneic, haploidentical, and cord blood transplant in treating hematological malignancies.
3. Understand preparative regimen chemotherapy and what preparative regimen is indicated based on disease and other comorbidities.
4. Understand the transfusion needs surrounding patients who need or receive a stem cell transplant.
5. Describe appropriate interventions for the management of transplant associated complications including acute and chronic graft versus host disease, infection, and organ toxicities.
6. Describe the process of pre-transplant evaluation, mobilization, cell collection, cell infusion, and troubleshooting infusion related complications for transplant patients and donors.
7. Understand HLA typing and donor selection for allogeneic and haploidentical transplants.
8. Understand the purpose and importance of immunosuppression in the stem cell transplant population.
9. Identify the role of rehabilitation resources in patients undergoing stem cell transplant.
10. Understand the short term and long term follow up requirements and role of survivorship care planning, including patient education across the transplant continuum of care.
11. Recall the clinical background of chimeric antigen receptor modified T-cells and the diseases indicated for this type of treatment.
12. Discuss the outpatient management of a Stem Cell Transplant patient.
13. Recall the nursing care considerations of a patient 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