

ROTATION SUMMARY
STEM CELL TRANSPLANT

Rotation Contacts and Scheduling Details

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Introduction

After completion of the rotation, the residents will be able to understand the basic concepts, benefits and risks of stem cell transplantation, and the clinical care of children who are receiving transplants and are immune compromised. The residents are also expected to gain additional knowledge in the care of sick children with multisystem disease.

Weekly Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
0700-0800	Pre-round	Pre-round	Pre-round	Pre-round	Pre-round
0800-0830	Morning Report	Morning Report	Morning Report	Morning Report	Grand Rounds
0830-0900	Pre-round	Pre-round	Pre-round	Pre-round	
0900-1200	Rounds	Rounds	Rounds	Rounds	Rounds
1200-1300	Noon Conference	Noon Conference	Noon Conference	Noon Conference	Noon Conference
1300-1330	Patient Care	Patient Care	Patient Care	Patient Care	Patient Care
1330-1430	SCT Teaching	SCT Teaching	SCT Teaching	SCT Teaching	SCT Teaching
1430-1700	Patient Care	Patient Care	Patient Care	Patient Care	Patient Care
1700	Sign-out	Sign-out	Sign-out	Sign-out	Sign-out

Rotation Specifics

Orientation

Residents should receive sign out before beginning the rotation to gain familiarity with the patients. On the first day of rotation the Stem Cell Transplant attending will run the rounds and educate the residents about the various aspects of care in each of the patients admitted on the unit. The attending physician will be available to answer all questions from the residents.

Rounds

The team will first make rounds in the conference room, residents will present the patient assessments, review labs and discuss the care plans with the attending. Attending and residents will then walk round to see all the patients and discuss the care aspects with the patients and families. The SCT attending will like the residents to take the lead and discuss the various issues and answer the questions.

Night coverage

Stem Cell Transplant is a non night-call month so residents will not be taking night call during this rotation. However, one of the residents will be covering either Saturday or Sunday from 0700-1900. Over weekends, the morning rounds will be as specified above except that there will be no conferences.

Lecture Series

Last updated 1/2010

The education lecture series on the Stem Cell Transplantation (SCT) is to enhance resident's knowledge and experience in taking care of immune compromised patients. This education will also allow residents to learn more about hematopoietic stem cell transplantation, including indications, complications, and outcomes.

Resident Roles and Responsibilities

Resident:

- Performs the primary patient care role
- Pre-rounds on patients and writes daily progress notes and orders
- Presents patients on rounds and takes care of daily work associated with patient care
- Performs dictated history and physicals on new patients
- Plans discharges and does paperwork.
- Examines new and sick patients, check labs and films – prior to Morning Rounds
- Runs rounds and makes management decisions with the attendings
- Follows-up on daily patient work to ensure the plan is carried out appropriately
- Is responsible for the care of all patients on the team
- Conducts efficient walk/work rounds

Evaluation and Feedback

The methods of evaluation will consist of:

- Global Rating Scales – MedHub Faculty Evaluation of Resident Evaluations, Resident Evaluation of Faculty, Resident Evaluation of Rotation. Drs. Weinberg and Agarwal, Cho and Kharbanda to complete individual evaluations on all residents rotating on SCT.

These evaluations will be included in each resident's portfolio.

Feedback will be provided each Friday in the informal setting, however, the formal evaluations will be provided at the end of the rotation in a formal setting. The feedback will be on all aspects of medical care, fun of knowledge, bedside manner and team work.

Competency-based Goals and Objectives

Goal 1: Understand the basic concepts of stem cell transplantation.

Resident Objectives:	Instructional Strategies	Evaluation	ACGME Competency Goals
Define hematopoietic stem cell.	Lectures 1, 2, 3, 4 Clinical rounds	Attending observation of resident	MK
Explain the requirements for engraftment.	Lecture 1	Attending observation of resident	MK
Define the role of histocompatibility in transplant.	Lecture 1 Clinical rounds	Attending observation of resident	MK
Define the 5 sources of HSC for transplantation and the advantages and disadvantages of each (including HSC content, likelihood of engraftment, and GVHD risk).	Lecture 3	Attending observation of resident	MK
Describe the necessary preparation for BMT including immune suppression, myeloablation, eradicating tumor cells, and typical conditioning regimens.	Lecture 4 Clinical rounds	Attending observation of resident	MK PC
Explain the donor search, consent and admission process.	Lecture 6	Attending observation of resident	PBLI
Describe the discharge criteria and follow-up post BMT	Lecture 10 Clinical rounds	Attending observation of resident	PBLI MK

Goal 2. Understand the risks of transplantation

Resident Objectives:	Instructional Strategies	Evaluation	ACGME Competency Goals
Define acute versus chronic GVHD.	Lecture 5 Clinical rounds	Attending observation of resident	MK
Define the clinical presentation of GVHD.	Lecture 5 Clinical rounds	Attending observation of resident	MK
Describe immunity post-transplant.	Lecture 12 Clinical rounds	Attending observation of resident	MK

Goal 3. Understand the benefits of transplantation.

Resident Objectives:	Instructional Strategies	Evaluation	ACGME Competency Goals
Define diseases that are potentially curable by SCT (marrow failure syndromes, immune deficiencies, cancer, genetic diseases)	Lecture 2 Clinical rounds	Attending observation of resident	PBLI MK
Describe the long term survival and medical problems for survivors.	Lecture 11 Clinical rounds	Attending observation of resident	PBLI MK
Explain the challenges of social re-integration and schooling in post-transplant patients.	Lecture 11	Attending observation of resident	PC

Discuss the outpatient management of BMT survivors.	Lecture 11 Patient care in clinics	Attending observation of resident	PC
Explain the cost-benefit analyses of BMT.	Lecture 11	Attending observation of resident	SBP
Goal 4. Develop clinical knowledge and skills specific for the care of children with compromised immune systems and those receiving transplants.			
Resident Objectives:	Instructional Strategies	Evaluation	ACGME Competency Goals
Define and specify management plan for each of the following post-transplant conditions: 1. Mucositis 2. Anorexia 3. Capillary Leak Syndrome and fluid Management 4. Venocclusive disease of liver 5. interstitial Pneumonia syndrome 6. Hypertension	Lecture 7,8,9 Clinical rounds and patient care	Attending observation of resident	MK PC
List 3 bacterial, fungal, and viral infections that post-transplant patients are susceptible to; indicate the appropriate prophylaxis to reduce the risk of these infections.	Lecture 7,8,9 Clinical rounds and patient care	Attending observation of resident	MK PC
Define management strategies for GVHD.	Lecture 5 Clinical rounds and patient care	Attending observation of resident	MK PC

PBLI = practice based learning and improvement

ICS = interpersonal and communication skills

P= professionalism

MK= medical knowledge

PC= patient care

SBP = systems based practice