

Name of rotation: ID Consultation Service
(Cancer Center)

Division: Infectious Diseases

Course Director: Michael Kleinberg, M.D.

Site(s): Greenebaum Cancer Center

Duration of rotation: one month only
 2 weeks possible

General description of the rotation including educational purpose, rationale or value:

This rotation focuses on cancer patients whose host defenses are compromised by their underlying disease or by their therapy, and patients undergoing allogeneic and autologous transplantation. The pathogenesis and diagnosis of infection, as well as the rational application of antibiotics will be stressed.

Resident responsibilities, including interns and residents:

The resident is expected to be an active member of the consult team. This includes: 1) performing initial consultations on patients in the University of Maryland Cancer Center (there is generally about one/day); 2) daily (M-F and Sat am) follow-up visits on all patients being followed by the resident; 3) daily (M-F and Sat am) rounds with the team which will include the attending physician, the fellow, and medical students; 4) attending clinical conferences which are held on Monday afternoon and Friday at noon and daily microbiology rounds; 5) provide weekend coverage with the attending physician one weekend during the elective. The resident will be encouraged to cooperate with the hematology/oncology team in order to better appreciate how specific chemotherapeutic regimens induce host defects.

Educational Objectives: An expanded version of the competencies is listed under Core Competencies in Internal Medicine. Those listed here are specific to this rotation. Since residents may choose this elective during any year of training, PGY-1 goals and objectives are distinct for those for upper level residents, and PGY-2 and 3 goals and objectives are similar.

During this rotation, the PGY-1 resident will:

Patient Care

1. Be exposed to a wide variety of inpatient infectious disease diagnostic and management problems.
2. Read and interpret gram stains, AFB smears, fungal stains, and understand the general principles of obtaining and interpreting microbiologic cultures and sensitivity reports.

Medical Knowledge

1. Discuss the major classes of antibiotics, their appropriate use and important side effects.
2. Discuss the manner in which specific defects in host defenses leads to specific types of infection.

Practice-Based Learning

1. Perform literature searches, read textbooks and journal articles pertinent to the infectious disease cases that are being seen on service.

Interpersonal and Communication Skills – See Core Competencies

Professionalism – See Core Competencies

System-Based Practice – See Core Competencies

During this rotation, the PGY-2 or 3 resident will:

Patient Care

1. Evaluate independently a wide variety of inpatient infectious disease diagnostic and management problems.
2. Read and interpret gram stains, AFB smears, fungal stains, and understand the general principles of obtaining and interpreting microbiologic cultures and sensitivity reports.

Medical Knowledge

1. Describe mechanisms of action of the major classes of antibiotics, their appropriate use and important side effects in this population.
2. List pathophysiologic mechanisms in which specific defects in host defenses leads to specific types of infection.

Practice-Based Learning

1. Perform literature searches, read textbooks and journal articles pertinent to the infectious disease cases that are being seen on service.

Interpersonal and Communication Skills – See Core Competencies

Professionalism – See Core Competencies

System-Based Practice – See Core Competencies

Check all principle teaching methods used during this rotation:

- | | | | |
|-------------------------------------|---|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Attending teaching rounds | <input type="checkbox"/> | Interdisciplinary rounds |
| <input checked="" type="checkbox"/> | Patient management discussions | <input checked="" type="checkbox"/> | Small group discussions |
| <input checked="" type="checkbox"/> | Conferences specific to rotation | <input checked="" type="checkbox"/> | Bedside clinical rounds |
| <input type="checkbox"/> | Individual instruction of procedures | <input checked="" type="checkbox"/> | Review of diagnostic studies, including radiology |
| <input checked="" type="checkbox"/> | Other: Optional rounds with oncology team | | |

Describe the most important educational content, including the mix of diseases, patient characteristics, types of clinical encounters, procedures and services:

The ID consult service at the Cancer Center assists in the evaluation of patients with febrile neutropenia secondary to either the patient's underlying disease or to the therapy administered (includes chemotherapy, stem cell and bone marrow transplantation) and in the evaluation of cancer patients with established infections. There will be a focus on fungal and viral infections as well as the usual range of bacterial infections. Concepts of colonization resistance and microbial surveillance will also be stressed. Emphasis will be placed on generating a strong data base including history, physical examination and laboratory values including microbiology, antibiotic levels and radiology. These data will be used to make initial treatment plans and subsequent day-to-day treatment decisions.

Check the principal ancillary education materials used:

- | | | | |
|-------------------------------------|---|-------------------------------------|------------------------------|
| <input type="checkbox"/> | Reading lists | <input type="checkbox"/> | Pathologic material |
| <input checked="" type="checkbox"/> | Radiologic studies | <input type="checkbox"/> | Other noninvasive studies |
| <input checked="" type="checkbox"/> | Handouts on relevant topics | <input checked="" type="checkbox"/> | Articles from the literature |
| <input checked="" type="checkbox"/> | Other: Small group discussion of prepared cases | <input checked="" type="checkbox"/> | Case studies |

Methods used to evaluate the resident and the rotation:

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Evaluation of residency performance and professionalism |
| <input checked="" type="checkbox"/> | Evaluation of attending teaching skills and other attributes |
| <input checked="" type="checkbox"/> | Rotation assessment by resident |
| <input checked="" type="checkbox"/> | Observation of resident's clinical competency |
| <input type="checkbox"/> | Observation of resident's leadership and teaching skills |
| <input checked="" type="checkbox"/> | Review of the resident's history/physical exam, progress notes and documentation of procedures in the chart |
| <input checked="" type="checkbox"/> | Resident's attendance of rounds and conferences monitored |
| <input type="checkbox"/> | Other: _____ |

Identify strengths and limitations specific to the resources of the sponsoring institution:

The Infectious Disease Service at the GCC follows a large number of patients intensively over the prolonged course of their immune impairment. Thus, one gets a full appreciation of the types of infectious complications a physician is likely to encounter, and to become comfortable with the approach to their care.

Conferences or Attending/Patient Care Rounds: (Journal club, division rounds, etc.)

<u>Name</u>	<u>Location</u>	<u>Day</u>	<u>Time</u>
ID Clinical Conference	UMMC	Monday	4:00 pm
ID Didactic Lectures	UMMC	Friday	12 noon
Journal Club	UMMC	3rd Monday	4:30 pm
Microbiology Rounds	UMMC	Daily	1:15 pm

The resident and faculty members of the Postgraduate Education Committee reviewed and edited the content of this curriculum at its meeting on 7/18/07.