



Department of Medicine
Division of Infectious Diseases

Rotation Orientation Manual

Sunnybrook Health Sciences Centre

STAFF

Dr. V. Allen	Infectious Diseases/Medical Microbiology	pager 8595
Dr. N. Daneman	Infectious Diseases	H261 ext. 2791 pager 7717
Dr. S. Mubareka	Infectious Diseases/Medical Microbiology	A155 ext 4823 pager 5429
Dr. A. Rachlis	Infectious Diseases	A226 ext. 4689 H266 ext. 6044 pager 6021
Dr. A. Simor	Infectious Diseases/Medical Microbiology	B103 ext 4549 pager 8124
Dr. S. Walker	Pharmacy	E237 ext. 6756 pager 7520

EDUCATIONAL OBJECTIVES

The Division of Infectious Diseases provides an educational experience which affords an opportunity to gain competence in the inpatient and outpatient management of common problems in infectious diseases. It will be stressed that each housestaff member develop an evidence based approach to the patient with suspected infection. By using the symptoms, signs and epidemiologic clues, the pathogenesis of the infection and probable infecting agents can be determined. From this an understanding of the rational use of antibiotic can be developed.

Specific training objectives include developing an understanding of:

- i) the pathogenesis, epidemiology, diagnosis, treatment, and prevention of important infectious diseases in adults, including common community- and hospital-acquired infections, and infections in immunocompromised patients.
- ii) the pathogenesis, epidemiology, diagnosis, treatment, and prevention of infections caused by major pathogens (including *S. aureus*, *S. pneumoniae*, *S. pyogenes*, *E. coli*, *Pseudomonas*, *M. tuberculosis*, *Candida* spp, etc)
- iii) the major classes of antibiotics and other anti-infective agents, including their mechanisms of action, mechanisms of resistance, spectrum of activity, important adverse reactions and strategies for appropriate cost-effective utilization of antimicrobial agents.
- iv) the appropriate use and interpretation of diagnostic tests and investigations of patients with presumed infectious diseases, including microbiology laboratory procedures (Gram stain, culture, antibiotic susceptibility testing, antigen detection, serology, and nucleic acid amplification assays)
- v) the principles and practices of infection prevention and control in hospitals,

including the importance of hand hygiene, the significance of antibiotic-resistant organisms (MRSA, VRE, ESBLs), the role of barrier precautions and isolation procedures, risks of transmission of infectious agents to healthcare providers, and the role of immunization.

CONSULTATION SERVICE

The Division provides inpatient consultations to a wide variety of clinical services including trauma, burn unit, neurosurgery, cardiovascular surgery, orthopedics, general surgery, urology, oncology, nephrology, and general internal medicine. Consequently, an understanding of infections in the normal host as well as in those compromised by other processes can be gained. An average of 80-100 consultations are seen monthly. These are generally divided amongst 2-4 housestaff at varying levels of training. Housestaff see the patients on the consultation service daily, are to write appropriate consultation and daily progress notes, and to review these with the ID resident and/or attending staff. A sign-out/consultation list is maintained on the Sunnybrook Intranet, and should be updated daily. Housestaff are encouraged to critically review the literature as appropriate. Pharmacy resident and medical student electives may be part of the consultation team.

AMBULATORY CARE

Housestaff may attend general Infectious Diseases and HIV clinics weekly. New consultations are assessed and are reviewed in depth with the attending staff. Two or three new patients are seen in each clinic. The ID clinic is held on Tuesday mornings in room E209. Opportunity for longitudinal experience may be available depending on the duration of the rotation and upon request.

ROUNDS AND SEMINARS

Divisional Infectious Diseases rounds are presented weekly (on Tuesdays). A didactic seminar to discuss important concepts and subjects in infectious diseases is held weekly (on Fridays). Informal rounds are held weekly with all Infectious Diseases staff to discuss interesting patients seen on the consultation service. Residents are strongly encouraged to review the literature related to the cases they are presenting. There are weekly “plate” rounds with Microbiology or Infection Prevention and Control staff. The ID resident is responsible for a Patient Safety/M&M rounds once a month.

MICROBIOLOGY LABORATORY

The Microbiology Department provides plate rounds once a week. The focus of these rounds is to familiarize the residents with the collection, handling and processing of specimens, identification of medically important microorganisms, antimicrobial susceptibility testing and the interpretation of results. Residents are encouraged to go to the department at any time for help, review of cultures and work-up of specimens. An orientation to infection prevention and control is also incorporated into these rounds.

PHARMACY SERVICES

Dr. Sandra Walker from the Department of Pharmacy is part of the Infectious Diseases (ID) team. During months that she rounds with the ID team, Dr. Walker is involved in the care of all inpatient ID consults. Either Dr. Walker, a pharmacy resident, or Pharm.D. student under the preceptorship of Dr. Walker, may round daily with the Infectious Diseases team. When Dr. Walker or pharmacists under her preceptorship are on service, the pharmacist(s) will follow all inpatient consults with respect to pharmacotherapy issues (eg. assisting in the selection, dosing and monitoring of antimicrobial therapy). When on service, the pharmacist provides a formal therapeutic drug monitoring service for antimicrobials requiring serum levels (aminoglycosides and vancomycin) for patients consulted by Infectious Diseases. All recommendations made by pharmacy are communicated directly to the Infectious Diseases housestaff and attending physician. Following confirmation with the Infectious Diseases housestaff and attending physician, the pharmacist may document recommendations and write appropriate drug orders as a verbal order from the physician. When the ID pharmacist is not rounding with the Infectious Diseases team, medical staff can contact her directly by either phone, pager, or email for specific requests regarding patient therapy, assistance in monitoring specific patients, drug information etc.

In addition, regardless of whether the pharmacist is on service, Dr. Walker is available to provide: i) verbal and written drug information; and ii) educational seminars on antimicrobial and therapeutic related topics of interest to the Infectious Diseases team.

**SUNNYBROOK HEALTH SCIENCES CENTRE
INFECTIOUS DISEASES SERVICE
WEEKLY SCHEDULE**

	Monday	Tuesday	Wednesday	Thursday	Friday
0800					
0900	Dr. Rachlis HIV Clinic H266	ID Clinic E209 Dr. Daneman, Dr. Mubareka, Dr. Rachlis Dr. Simor		Clinical rounds/M&M rounds B103	
1000				Plate Rounds Microbiology/ Infection Control	
1100					
1200			Medical Grand rounds		ID seminar
1300	Rounds with ID attending	ID Rounds	Rounds with ID attending	Rounds with ID attending	Rounds with ID attending
1700					