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Section: <b>Education Manual</b>	Subject Title: <b>Microbiology Rotation for Medical Laboratory Technology Students</b>	
Issued by: <b>LABORATORY MANAGER</b>	Original Date: June 18, 2001	
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## **MICROBIOLOGY ROTATION FOR MEDICAL LABORATORY TECHNOLOGY STUDENTS**

### **Welcome to Microbiology!**

Microbiology is an interesting and dynamic science. Your time spent in our lab should be an enjoyable and successful learning experience.

The main objective of this training program is to produce a technologist who has the ability to apply theoretical knowledge to the practical aspects of the Microbiology laboratory, efficiently and with a caring attitude.

During your rotation you will be exposed to all aspects of the department. You will handle specimens from their receipt in the department through to the reporting of results. You will develop the ability to make a presumptive identification of common pathogens and be able to select the correct tests to fully identify them.

### **Department Information**

Toronto Medical Laboratories/Mount Sinai Hospital Department of Microbiology

**Mount Sinai Site**  
(Bacteriology)  
14<sup>th</sup> Floor - Mount Sinai Hospital  
600 University Ave.  
Toronto, Ontario  
(416) 586-4432

**TML Site**  
(Virology, Serology, Mycology, Parasitology)  
The Michener Institute  
12<sup>th</sup> Floor - 222 St. Patrick St.  
Toronto, Ontario  
(416) 340-5898 ext. 2511

### **Regular Lab Hours**

7:45 to 16:00 **or** 8:00 to 16:15

Coffee and lunch schedules should be worked out with the bench tech you are working with. If you are sick or cannot report to the lab please call Martin at (416) 586-4696 and Glen at (416) 586-3137 and leave messages with both.

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## **Orientation**

1. Introduction to Dr's Low, Mazzulli, Campbell, MacDonald, and McGeer. Introduction to Administrative Director Martin Skulnick, Manager Katherine Wong, and Charge Technologist Glen Small, Iris Anne Edwards and Robert Chua.
2. Actual walk through tour of lab:
  - where to get clean lab coats, put dirty ones and wash up area
  - various benches, incubators, fridges, store room
  - bathroom and lunchroom facilities, including cafeteria location
  - bulletin board with schedules, notices, lectures
  - library where journals and reference books are kept
  - where main lab manual is kept and NCCLS guidelines Safety Manual, WHMIS Manual and other reference books (QA bench)
  - overview of safety rules e.g. no open toe or open heel shoes, fire alarm pulls, stairway exits, fire extinguishers, eye wash / shower stations.
3. Arrange time for IC talk by an Infection Control practitioner.
4. Arrange time for full safety talk by Safety Officer - Joanne Sverha, re: WHMIS, etc.

## **Competencies and Objectives**

Please refer to objectives given to you by your individual teaching institutions. Objectives are also available in respective binders with the senior teaching technologist.

**Note:** Competencies and Objectives are actually set by CSMLS.

## **Education**

There is a 10 week training period for technologists in microbiology. A schedule will be given to you on your first day.

### **Week One: At Mount Sinai Site**

- Monday, introductions and orientation first thing
- Specimen management bench and media preparation for remainder of week

### **Weeks Two - Eight: At Mount Sinai Site**

- covering these benches one week at a time: urines, respiratory, genital/enterics, miscellaneous and sterile fluids, blood cultures, infection control and quality control

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### **Weeks Nine - Ten: At TML Site**

- covering mycology in one week and serology/virology in the other.

Students may be given a short topic to present to a small group of technologists (e.g. journal article) if time permits.

There are several tutorials/rounds you may attend:

Departmental seminars are every 2<sup>nd</sup> Wednesday from 2:15-3:15 p.m. at the Mt. Sinai site (they rotate every 2<sup>nd</sup> week with general lab meetings).

TML rounds are every 2<sup>nd</sup> Tuesday from 1:15-1:45 p.m. Check bulletin board for topics and location.

Infectious Disease Lunch hour rounds are every Tuesday from 1:00-2:00 p.m. at TGH Radiology Conference Room East South 1-452, check bulletin board for topics.

### **Evaluations**

Kingston students will have a test weekly and a final at the end of week 10. Tests set up by St. Lawrence College. Kingston students will also have a practical exam week 10.

Michener students will also write a weekly test which will not count for marking. However, they will write a final at the end of week 10 set by Michener Institute. Michener students will have a practical exam during week 10 which will be marked.

Each student will be evaluated by a technologist working the bench that the student is assigned to that week. Students will also evaluate the benches on their rotation every week. Final evaluation will be done by the Senior Teaching Technologist at the end of 10 week rotation. Each student will be given "unknowns" throughout the microbiology rotation.