

DEPARTMENT OF RADIOLOGY

RADIOLOGY ELECTIVE

Course Director: Steven Lev, MD.

Duration: Varies

- Two week electives are for Stony Brook students and per request
- Four week electives are for non-core AUC and NYCOM students
- Six week schedules are for AUC core students

GOAL AND REQUIREMENTS

The student will learn about the diagnostic decision making process, namely how to formulate an accurate radiological differential diagnosis and to use the differential to help guide test ordering and suggest a treatment plan.

- A. The student will be assessed for interpretation skills.
- B. Each student may present from three to six case presentations. In addition, one or two case based exams (a midterm and final) will be given.
- C. The student should observe and demonstrate familiarity with mammography, US, interventional, GI and radiation oncology procedures.
- D. Students are expected to acquire basic competence in radiology skills, based on the text Learning Radiology, 2nd edition.
- E. Students will receive one-on-one teaching from residents and attendings and assist them as part of the radiology team. Students will participate in radiology readout sessions, and are encouraged both to ask questions, gather clinical information, look up literature, and review on-line teaching modules. The student should be helpful and involved. The importance of this cannot be overstated! The student should review the studies with the residents prior to attending readout. At least four evaluation forms must be obtained in each of the following subspecialties: IR, Neuro, CT, Radiation Oncology and Plain Films. Up to two evaluations may be from residents, the others from attending staff. At the student's discretion, additional supportive evaluations may be obtained. These should be placed in sealed envelopes and deposited in Dr. Lev's mailbox in the chairman's office.
- F. Students will attend most didactic morning and mid-day teaching sessions. Mandatory lectures will be designated with an M.

SCHEDULE BREAKDOWN

The student will rotate in the following subspecialty areas during the daily image interpretation sessions. It is recommended that you coordinate your reading in Learning Radiology to the rotation you are on.

Based on the six week schedule:

1. Neuroradiology (5 days), Chapters 24 and 25
2. CT/MRI (4 days), Chapters 11-18, 20
3. Plain Films (PF): Inpatients, Outpatients and ER (3 or 4 days), Chapters 2-10
4. Radiation Oncology (RO): 2 or 3 days
5. Interventional Radiology (IR): 4 days (for AUC core only)

The schedule is designed to give the student maximal flexibility and the opportunity to explore area of interest in greater depth. To this end, several Pot Luck days have been included.

For the four week rotation, four additional “potluck” PL days include:

- US (2 days - Note that only two students can be on US on any day), Chapter 19
 - During the US rotation, the student is also to participate in GI/GU
- GI: Chapters 14,15 and 18
- Mammo:1 day (Note that US and Mammo are mandatory)
- Student’s choice: 1 day
 - AUC non-core and NYCOM students may opt for one day IR

For the six week rotation, an additional 3 PL days are offered, giving each student a total of 3 Student Choice days. No more than one extra day is to be spent in any of the following sections: CT/MR, Neuro, Rad Onc, PF, US or Mammo. Please indicate your choices for the PL days in the gridboxes on your schedules.

PROCEDURES

- Some rotations involve procedures. You are expected to observe a minimum number of procedures in each subspecialty division. These include US (10 cases), mammo (2 cases), GI/GU (3 cases), IR (1 case) and radiation oncology.
- You will carry a personal **Procedure Log**. Each case must have the name of the patient, date, record and accession number and location of the patient. Be prepared to tell why the patient is having the study and describe the relevant findings on the exam. Please have the supervising and credentialed resident, attending or technologist sign off on each procedure you observe. Your Procedure and Case Logs will be reviewed.
- In US, divide your time between readouts and examinations. Try to observe the technologist scanning morning cases, so that later on, you will be prepared to review the findings with an attending. You are encouraged to ask the resident or attending to show you how to perform a scan. No more than one student is permitted in the patient’s room at any given time.
- Remember to always accompany the attending, resident or technologist when you see a patient. Introduce yourself as a student.
- Understand the indications for a given procedure, know about possible complications, as well as risks and benefits.
- Be aware of the contraindications for MR examination and the radiation risks of CT. Know what measures can be taken to limit the radiation dose, both for plain films and CT.
- Observe the technologist perform a chest X-ray. Visit the CT suite in the ED and the MR suite.

FEEDBACK

There will be an anonymous feedback system for the students. On the last day of the rotation, Dr. Lev will have a debriefing with the students to discuss the rotation and invite suggestions for improvements. There will be the opportunity to provide verbal feedback in both directions.

EVALUATION METHOD

Evaluations will be based on clinical performance, engagement and participation during daily rounds, case presentations and end of elective tests. They will also be evaluated regarding interactions with those in the reading room and professional behavior.

SUGGESTED READING MATERIALS

Required reading: (students are responsible for obtaining the text) Learning Radiology: Recognizing the Basics, 2nd edition by William Herring. (Paperback or Kindle 2012)

Web sites

www.learningradiology.com

www.studentconsult.com

www.buubbasoft.org (great for radiology anatomy, clinical modules)

HOW TO APPLY

If you are interested in applying, please call 516-572-5399 or visit us at www.numc.edu.