

Albert Einstein Medical Center  
Philadelphia, Pennsylvania

**Medical Student Elective Program  
in Diagnostic Radiology**

**General Information and Instructions**

Susan L. Summerton, MD, Director of Medical Student Education  
Janet L. Birkmann, Academic Coordinator

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Welcome to the Radiology Department. We are very pleased to participate in your education and have planned an experience that we hope you will find both educational and enjoyable.

**Your Headquarters**

We have established an audiovisual classroom in our Radiology Learning Center specifically for our medical students and other electives. This room will serve as the site for most of your lectures/conferences and will afford you a comfortable space to use our audiovisual instructional materials. You may also use the nearby computers with Internet access to help in the preparation of your required project. Only those individuals assigned to the Radiology Department on elective may use this room and equipment, which is available between 9:00 am and 5:00 pm weekdays. None of the equipment may be removed from this area. We ask that you keep this room clean and orderly.

**Schedule**

You will meet with Dr. Sue Summerton at the beginning of your elective to develop a schedule for the month. The program is designed to give you the broadest introduction to diagnostic radiology through a combination of didactic lectures, digital teaching resources and over-the-shoulder film reading. The typical day begins with your attendance at the departmental 8:00 am conference. If there is no 8:00 am conference or if you choose not to attend an optional 8:00 am conference, the starting time is between 8:45 and 9:00 am. The usual finishing time is 5:00 pm.

**Departmental Conferences**

Two one-hour conferences are held most days starting promptly at 8:00 am and 12:00 noon in the Isard Amphitheater. A copy of the conference schedule will be given to you when you begin your rotation or can be found posted in your classroom or the consultation room. While these conferences are aimed primarily at a resident level, you will still find them very informative, and we expect you to attend. We ask that you do not eat in the Isard Amphitheater; please eat lunch before or after noon conference.

Check the conference schedule carefully. On some Thursdays, the morning conference will be pre-empted by a staff meeting or a pediatric radiology conference at St. Christopher's Hospital. Radiology Grand Rounds typically occur on the first Wednesday of each month at 4:00 pm. Attendance at the morning Physics Conferences and the Journal Club is optional.

### **Observing the Diagnostic Process**

Unlike some of your other rotations where you are given primary responsibility to care for a patient, it is impossible to permit you to officially interpret or perform radiological studies. However, you will learn a great deal of radiology by observing the interpretation and performance of examinations.

When "free time" is available to you, we urge you to pull up a chair and observe the reading of films with either a staff radiologist or a resident in the consultation room. You will be an active participant, as our staff will frequently give you an opportunity to find the radiological abnormalities and will teach you about the various diseases. Your confidence and ability will increase as you put the information learned from texts and lectures into practice. You will observe clinical consultations from the perspective of the radiologist, so that you will become a good consultant when ordering studies in the future.

Observing patients as they undergo radiological procedures will allow you to see exactly what the patient experiences. In the future when you will be ordering these examinations, you will be able to correctly address your patients' questions and concerns about the examination. You will also know what stamina will be required of your patient to permit the radiologist to perform a good quality study. You will have the opportunity to observe the performance of fluoroscopy, ultrasound, vascular ultrasound, CT, MRI, nuclear medicine and angiographic studies.

This rotation will expose you to the many ways diagnostic imaging will help you in clinical problems that will arise in your future training and should make you more comfortable in viewing some of the imaging studies you will order.

### **Core Book For Your Elective**

The Department will provide each medical student with a radiology textbook. The book is to be signed out at the beginning of the rotation with Janet Birkmann and returned promptly at the end of the rotation. Return of the textbook ensures timely filing of your course grade. We have selected this book for its specific interest and educational value for medical students. It is, therefore, required reading.

### **Lockers**

Lockers in the Medical Student Classroom will be provided for your personal belongings. Please lock up any valuables or books. The department or hospital cannot be responsible for loss of personal items.

## **Telephone Communications**

Janet has four hospital pagers that our student group can share. All beepers have a 4 digit pager number. To page someone internally, enter 52; after the beep, enter 2 and the four digit pager number you want to activate; after some more beeps, enter 6 and the four digit telephone extension where you wish to be called.

These pagers can also be activated from outside the hospital by using the long-range pager access number 215-363-5000 and entering the 4 digit pager number as the “pin.” Another way to receive outside calls is by direct connection through the Einstein operators. Your caller should dial 215-456-7890 and ask to be connected to your pager number. You will then be able to pick up the call from any extension by entering the number sequence that appears on your pager.

### **Contact Information:**

Susan Summerton, MD	Beeper in-house 3781; long range 215-363-5000 (pin 23781) <a href="mailto:SummertonS@einstein.edu">SummertonS@einstein.edu</a>
Janet Birkmann	215-456-7378 <a href="mailto:birkmanj@einstein.edu">birkmanj@einstein.edu</a>
Radiology main number	215-456-6200
Cardiac Arrest	x. 66161
Hospital Security	x. 66918
Fire	x. 66911

## **Dress Code**

The dress code is simple: We expect you to present a professional appearance on the rotation. Everyone is expected to wear a white lab coat. Males are expected to wear a tie. Please wear a name badge at all times. Please wear scrubs when you are assigned to rotate in Special Studies.

## **Absences**

If you know in advance that you will be absent from the department, please use the pink forms in the top drawer of the desk in the student classroom to indicate your name and the day(s) you will be absent and give this to Janet for your file. If you need to call in for a same-day absence, please call Janet at 215-456-7378. If she is not available, then contact Dr. Summerton or Dr. Herring at 215-456-3438 or 215-456-6226, respectively. Fill in a pink form when you return.

## **Library**

The department's library is open from 9:00 am to 5:00 pm weekdays. Books can always be used in the library; some may be signed out with Janet for at-home study. Books in the “Reference Section” or the locked book cabinets may not be signed out of the library. Use of the library is restricted to those students on rotation in the department at the time of their rotation.

## **Case Presentation**

Near the conclusion of your rotation, you will be expected to deliver a 10-15 minute PowerPoint presentation of a case to the other students and a staff radiologist. The case should be one you have seen while on the rotation. You can ask for assistance in selecting a case from radiology staff or residents and for help obtaining images from our PACS system for use in your PowerPoint presentation. The presentation should include the patient's clinical history and clinical findings, a description of the findings on the films, the classical findings for all patients with this disease, as well as a discussion of the disease itself. You should summarize the role that radiology played in determining the diagnosis and offer your opinion about the utilization of radiologic studies, i.e., were the optimal studies performed, was utilization of radiologic services cost-effective, etc.

**Your case presentation may be used as a Case of the Week on [www.learningradiology.com](http://www.learningradiology.com):**

- Consult the site to see how previous Cases of the Week appear (look under "Archives").
- Use an Einstein case - do not use any other institution's case as this is an infringement of their copyright.
- It must be a case in which you can make the diagnosis on one image.
- It can be any modality, any organ system.
- In Microsoft Word (any version), type a one page, or less, summary that includes the findings on your image, the etiology, incidence, pathology and overall findings of whatever disease it is and the prognosis and treatment. Do not use anyone else's material verbatim - change the wording so as not to infringe on copyright.
- Place the Word Document summary of your case and your PowerPoint presentation on a CD.
- Clearly label the CD with your name and the diagnosis.
- You will be credited by name both on the opening splash page and the jump page on which the "correct answer" and your blurb appear; Cases of the Week are archived so that your contribution and its attribution will always remain on the site.

## **Grading**

Grades for the clerkship will be based on your level of attendance/participation in the elements of the teaching program and the quality of your "Case of the Week" presentation. You will discover that radiology is traditionally taught in a Socratic style, which we feel enhances the learning experience through active participation of the student. You may be asked to make a diagnosis during view-box teaching sessions or conferences; feel free to participate fully without fear that your grade will be diminished if you give a wrong answer.

## **Course Evaluation**

We shall ask you to complete an evaluation of this rotation at the conclusion of your stay. You are not required to sign it but may do so if you wish. Please feel free to answer the evaluation honestly so that we can make improvements and adjustments for future rotations. The completed evaluation should be placed in Dr. Summerton's mailbox at the front of the department.