

UNIVERSITY OF BRITISH COLUMBIA

Department of Radiology at Greig Associates

READ ALL INSTRUCTIONS CAREFULLY

This confirms the dates for your elective for the period:

On the first morning of your elective, please report to:

Time: 0900 hours

Location: Greig Associates Ultrasound, X-Ray & Mammography
5732 Victoria Drive, Vancouver, BC

Preceptor: Dr. Connie Siu

For telephone enquires regarding your elective please contact Christine Kaiser at 604-875-4111 ext. 66794 or email at christine.kaiser@vch.ca.

HOURS

The standard hours for your elective will be 8:30 to 4:30, Monday to Friday. You are not expected at the hospitals on statutory holidays. *All absences must be reported to Christine Kaiser, Undergrad Program Assistant at christine.kaiser@vch.ca or phone at 604-875-4111 ext. 66794.* You must also inform your preceptor/radiology department as well as the Year 4 or Year 3 Office or your home university.

DRESS CODE

Radiology electives do not require lab coats or stethoscopes. Business casual attire is the norm -- no plunging necklines or excessively high hemlines. The Department of Radiology, UBC considers *all clinical facilities to be scent free.*

ACADEMIC HALF-DAY / NOON ROUNDS / GRAND ROUNDS.

Each Wednesday at 1:00 p.m. the Residents meet to attend Academic Half-Day lectures. You are expected to attend the lectures. These lectures are held in room 3414 next to the elevators on the 3rd floor every Wednesday, with the exception of the last Wednesday of every month, when they are held at St. Paul's Hospital in Lecture Room 1500. Grand Rounds are held September - June, on Wednesday at 5:00. The residents will be able to advise you as to the location or you can look it up online at: <http://postgrad.radiology.med.ubc.ca/>

OBJECTIVES

1. To acquaint the student with plain x-ray imaging. The student will learn how x-ray images are produced, indications for the various examinations and interpretation of x-ray images.
2. To acquaint the students with ultrasound imaging. The student will learn how ultrasound images are produced, indications for the various studies and interpretation of ultrasound images. Specifically, the student will have exposure to ultrasound imaging of the breast and be able to observe breast biopsies and fine wire localization both under ultrasound control and mammography control. The student will also have exposure to obstetrical ultrasound imaging,

learn the indications for obstetrical ultrasound imaging, the criteria for diagnosis of aneuploidy and commonly seen obstetrical ultrasound abnormalities.

3. To acquaint the student with imaging with mammography, both Screening and diagnostic mammography. The student will learn the indications for mammography. The student will see how diagnostic mammography images are produced. The student will learn the typical mammographic signs of malignancy and benignancy.
4. To acquaint the student with bone mineral density measurement, learn the indications and interpretations of results.
5. To observe 3D ultrasound imaging
6. To have access to x-ray film library.
7. To participate in ultrasound rounds when these coincide with the student's rotation.

EVALUATIONS

It is the responsibility of each student to distribute and obtain a completed evaluation. For UBC Year 4 students this is done through One45/WebEval. Visiting and UBC Year 3 students MUST bring a hard copy of the evaluation form with you for completion.

ELECTIVE REQUIREMENTS

Self-Assessment Quizzes

The Pre- and Post-quizzes are posted for UG electives are posted on the website for UBC Radiology at: <http://undergrad.radiology.ubc.ca> Both quizzes are mandatory as are a review of the "Must See" cases in order to pass the post-quiz.

Before taking the elective select: My Elective/Pre-quiz in order to test any knowledge you may already have of Radiology.

At the end of your elective take the Post-Quiz. You can take it as many times as you need in order to pass but you must pass it with a score of at least 80%. When you have completed this, pdf the test score and you can print it and bring it to JPN 3350 for Christine Kaiser or submit it to Christine Kaiser as an email attachment at christine.kaiser@vch.ca

You will not be considered to have completed your radiology elective without completion and submission of the post-elective quiz.

1. Case Reports

Every student is required to submit at least 1 case per week using a Power Point Presentation. You will present an interesting case to your preceptor for both learning and assessment purposes. The process is as follows:

- a) Select a case of interest to you with radiographic image(s).
- b) Save the image(s) in jpg and insert import into your Power Point presentation. Be absolutely sure that no patient data are saved on the images!
- c) Document the case with, your name, date and a title. Format it like a radiology case report. A brief relevant clinical history, the most relevant images and radiology procedures with a description, differential diagnosis and most likely diagnosis. Provide a clinical summary of the pathology (if available), discussion and a final or most likely diagnosis.

d) Interesting cases will be filed with the teaching files at each site that has teaching files. The Program Assistant will keep a copy of the interesting cases with each student's electronic file. They may also be submitted to EuroRad or Case in Point American College of Radiology (ACR) for publication online. This site can be viewed at:

http://www.eurorad.org/eurorad/teaching_cases.php

<http://caseinpoint.acr.org/index.htm>

Submit your case by email as a Powerpoint attachment to your preceptor and to the Department of Radiology Undergrad Program Assistant, Christine Kaiser at christine.kaiser@vch.ca to be kept in your student file with the Department of Radiology.

2. Mandatory Pre-Reading

Go to the UBC Radiology Website to My Elective/Medical Imaging Primer and read this before you elective begins.

3. Schedule Signatures

You must print the schedule you received in your email and obtain signatures on it for every half day of your elective. At the end of your elective you must deliver it either by hand or as a pdf attachment on an email to the Senior Program Assistant, Christine Kaiser. Her office address is: 3350, 950 west 10th Avenue, Vancouver. This is in the Jim Pattison Pavilion North of Vancouver General Hospital. Her email address is chistine.kaiser@vch.ca.

HOUSING FOR VISITING STUDENTS

Visit the UBC Housing site for Visiting Students at: www.medhousing.med.ubc.ca

SELF-DIRECTED LEARNING

1. Introduction to Radiology University of Virginia, Online interactive tutorials: <http://www.med-ed.virginia.edu/courses/rad/>
2. Learning Radiology Medical Students. Extensive list of online lectures including "22 "Must-See" Diagnoses for Medical Students" and "Fundamentals of Chest Roentgenology" Excellent site for introduction to radiology, highly recommended. <http://www.learningradiology.com/medstudents/medstudtoc.htm>
3. RadResidents.com, useful links to all kind of radiology websites. <http://ucrads.blogspot.com/>
4. The Radiology assistant. Focus on common radiological issues in a problem oriented way for radiology residents and radiologists. <http://www.radiologyassistant.nl/en/>
5. ACR case in point. Nice teaching file cases. <http://caseinpoint.acr.org/http://www.RSNA.org/medstudents.cfm>
6. Please also visit the learning modules on the BC Radiology website at : <http://undergrad.radiology.med.ubc.ca>

UBC RADIOLOGY FACULTY AT GREIG ASSOCIATES

Dr. Connie Siu

Dr. Phil Switzer

SCHEDULE

WEEK 1

Monday	Tuesday	Wednesday	Thursday	Friday
A.M.	A.M.	A.M.	A.M.	A.M.
Given overview of program	Observe breast biopsies	Observe breast biopsies	Observe breast biopsies	Observe breast biopsies
Observe breast biopsies	Shadow Ultrasound Tech	Sit in on ultrasound and mammography reporting	Observe mammography positioning with mammography technician	Shadow Ultrasound Tech
Shadow Ultrasound Tech			NOON	
			Ultrasound Rounds	
P.M.	P.M.	P.M.	P.M.	P.M.
Sit in on plain x-ray reporting	Sit in on plain x-ray reporting	Observe x-ray imaging position with x-ray tech	Sit in on screening Mammography reporting	Sit in on plain x-ray reporting
	Sit in on ultrasound and mammography reporting	Sit in on plain x-ray reporting	Sit in on plain x-ray reporting	

WEEK 2

Monday	Tuesday	Wednesday	Thursday	Friday
A.M.	A.M.	A.M.	A.M.	A.M.
Observe breast biopsies	Observe breast biopsies	Observe breast biopsies	Observe breast biopsies	Observe breast biopsies
Sit in on ultrasound reporting	Shadow Ultrasound Tech	Shadow Ultrasound Tech	Sit in on ultrasound reporting	Sit in on ultrasound reporting
P.M.	P.M.	P.M.	P.M.	P.M.
3D Ultrasound	Sit in on plain x-ray reporting	Sit in on screening Mammography reporting	Sit in on screening Mammography reporting	Sit in on plain x-ray reporting
		Observe bone mineral density procedure		
		Sit in on plain x-ray reporting	Study film library	Evaluation session