INTRODUCTION

Welcome to your Radiology Elective at St Joseph’s Healthcare, Hamilton, Department of Diagnostic Imaging. We are located on Level 0 of the Juravinski Tower at the Charlton Campus. I look forward to meeting with you and I hope that you find your elective enjoyable, motivating and educational.

ELECTIVE OBJECTIVES

It is the objective of this elective to provide a comprehensive and insightful experience of a busy teaching hospital radiology department. Students will rotate through different subspecialist areas of the department and will be afforded the opportunity to observe procedures and examinations being performed. Students are encouraged to consider the patient experience of each examination and to question if there would be alternative imaging that may equally or better answer the clinical question. Students will spend time going through cases with residents and then ‘reading out’ these cases with the supervising staff Radiologist. The elective is designed to be equally as valuable for those hoping to enter a career in Diagnostic/Interventional Radiology as those pursuing other career paths both in hospital practice or Family Medicine.

The following objectives should be considered:
- An awareness and understanding of all provided imaging modalities.
- A knowledge of indications, contraindications, risks and costs of common examinations.
- A basic working knowledge of radiation safety.
- Understanding of basic cross sectional anatomy.
- An appreciation of normal and pathological conditions demonstrated on imaging.
- Basic imaging interpretation skills focusing on plain films but also including cross sectional imaging techniques.

EXPECTATIONS

Students are expected to arrive punctually and appropriately dressed. A professional manner in all interactions with all staff and patients is expected. Normal working hours are 0800 to 1700hrs. You will normally work alongside a resident from 0800 to 1200hrs. The morning sessions also provide an opportunity to observe image acquisition by performing technologists.

The afternoon schedule is made up of rounds and self-directed study including CORA participation. On the first morning of your rotation you are asked to spend time constructing your elective schedule with the help of a designated on site resident and with reference to the resident’s timetable.
As with everything communication is paramount and I ask that you introduce yourself to those that you meet within the department, including the radiologists that you are to be working with that day. Use common sense, courtesy, and discretion in dealing with patients. Be politely forthcoming if you feel that you are being ignored. Medical Students are important to me and to everyone in the department. Please let either myself or Terri know promptly if you encounter any problems.

**WEEKLY TIMETABLES**

**WEEK 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800-1200</td>
<td>Meet Terri Millsip for tour of DI Department.</td>
<td>ROTATION B</td>
<td>ROTATION C</td>
<td>Breast/Path rounds (0800-0900)</td>
<td>ROTATION E</td>
</tr>
<tr>
<td></td>
<td>-Meet Elective supervisor if on site.</td>
<td></td>
<td></td>
<td>ROTATION D</td>
<td>EXIT Interview and Case presentation (1 week elective). (Day/ time may vary dependent upon Dr. Stubbs availability)</td>
</tr>
<tr>
<td>1200-1300</td>
<td></td>
<td>Interesting Cases Rounds</td>
<td>ACADEMIC RESIDENT HALF-DAY</td>
<td></td>
<td>Lung Rounds</td>
</tr>
<tr>
<td>1300-1400</td>
<td>Resident Hot Seat Rounds</td>
<td>Resident Hot Seat Rounds</td>
<td></td>
<td></td>
<td>Resident Hot Seat Rounds</td>
</tr>
<tr>
<td>1400-1700</td>
<td>ROTATION A</td>
<td>Guided Self Study/ CORA</td>
<td></td>
<td></td>
<td>Guided Self Study/ CORA</td>
</tr>
</tbody>
</table>

**WEEK 2 (If applicable)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800-1200</td>
<td>ROTATION F</td>
<td>ROTATION G</td>
<td>ROTATION H</td>
<td>Breast/Path rounds (0800-0900)</td>
<td>ROTATION J</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ROTATION I</td>
<td>EXIT Interview and Case presentation. (Day/ time may vary dependent upon Dr. Stubbs availability)</td>
</tr>
<tr>
<td>1200-1300</td>
<td></td>
<td>Interesting Cases Rounds</td>
<td>ACADEMIC RESIDENT HALF-DAY</td>
<td></td>
<td>Lung Rounds</td>
</tr>
<tr>
<td>1300-1400</td>
<td>Resident Hot Seat Rounds</td>
<td>Resident Hot Seat Rounds</td>
<td></td>
<td></td>
<td>Resident Hot Seat Rounds</td>
</tr>
<tr>
<td>1400-1700</td>
<td>Guided Self Study/ CORA</td>
<td>Guided Self Study/ CORA</td>
<td></td>
<td></td>
<td>Guided Self Study/ CORA</td>
</tr>
</tbody>
</table>

Additionally colorectal and ENT rounds occur on a biweekly/monthly basis. Please see weekly schedule during elective for additional rounds.
Process for filling in Rotations:

- Available rotations (if resident assigned) include CHEST, NEURO, MSK, EMERGENCY CT, BODY, BREAST, ENT, BIOPSY and USS. Please note that BODY rotations are at our West 5th campus.
- You will be provided with a copy of the resident rota from QGENDA for the duration of your elective.
- Match desired rotations with residents allocated.
- Include one IR rotation per week. This may be increased or decreased based upon student interest after discussion with IR rad (Dr Oleg Mironov).
- Liaise with Dr Stubbs for ½ Day staff MSK rotation.
- If there are no residents on site discuss with Terri Millsip and arrangements shall be made for you to be placed with one of our fellows.
- Rotations can also be filled with sessions shadowing and learning from the technologists at the point of image acquisition (MRI, CT, Mammo, USS, Plain radiography). Allow approximately 1 hour per session.

Note: Please obtain scrubs the day prior to your IR day and seek out the IR rad to ask that you can join them the following day. Come dressed in scrubs for 8am in the IR suite. It is also a good idea to check the list of procedures scheduled for that day so you can read around the anatomy/procedure the night before.

ROUNDS

Rounds occur throughout the week and are normally held in the John Fortino Conference room (near the main radiology reception desk). Radiology resident HOT SEAT rounds are daily at 1pm with the exception of Wednesdays when Resident Half day rounds take place. You should prioritise attendance at these teaching rounds as much as possible and are encouraged to attend the Radiology Resident Half Day Sessions. Attendance at Clinical -Radiology rounds will provide an understanding of the role of the radiologist plays in the team setting and allow observation and learning from complex case discussion.

CORA – Centre of Radiology Anatomy

The Centre of Radiology Anatomy (CORA) lab is located on Level 3 of the Juravinski Innovation Tower. It is the expectation that students will work through this excellent chest x-ray interpretation course during their elective weeks. The CORA lab is a shared space – please liaise with Terri to see if there is a suitable time for you to use during your elective. Separate handouts describing CORA will be given to you at the start of your elective.

MEDICAL STUDENT CASE LIBRARY

We have a growing case library of interesting cases for elective students to work through. This list is continuously updated and cases can be worked through during any down time and subsequently discussed with residents and/or ‘read out’ with Dr Stubbs. You will require PACS access for this and will be provided with this at the start of your elective.
EVALUATION

Students will be assigned a Staff mentor for the duration of their elective (Dr Stubbs or Dr Mironov). Student evaluation will be based upon attendance, clinical / radiological contribution to discussions and professional attitude. This will also encompass the student’s understanding of the physics, radiation exposure, patient perspective, role of the technologist and supporting staff as detailed in the McMaster Medical Student Radiology Curriculum.

Students are asked to present 1-2 interesting/educational cases that you have been involved in during your elective. This will include brief clinical indication, relevant imaging findings with diagnosis or differential diagnosis.

We look forward to meeting with you and hope that you enjoy your time with us.

Dr Euan Stubbs
Coordinator of Elective Medical Students in Radiology
Assistant Professor McMaster University

CONTACTS

Terri Millsip
Administrative Support for Elective Medical Students/Non-Radiology Residents in Rotation in Radiology
Department of Diagnostic Imaging
St Joseph’s Healthcare Hamilton
50 Charlton Avenue East, Room T0113
Hamilton, Ontario L8N 4A6
Email: tmillsip@stjoes.ca

Dr Euan GC Stubbs, MBChB MRCS FRCR
Coordinator of Elective Medical Students in Radiology
Assistant Professor McMaster University
Department of Diagnostic Imaging
St Joseph’s Healthcare Hamilton
50 Charlton Avenue East
Hamilton, Ontario L8N 4A6
Email: estubbs@stjoes.ca

Dr Oleg Mironov
Assistant Coordinator of Elective Medical Students in Radiology
Assistant Professor McMaster University
Department of Diagnostic Imaging
St. Joseph’s Healthcare Hamilton
50 Charlton Avenue East
Hamilton, Ontario L8N 4A6
Email: omironov@stjoes.ca