Elective: Diagnostic Radiology

OVERVIEW

The Department of Radiology at the University of Manitoba is committed to the education of local and visiting undergraduate medical students. Radiology education relies on a strong knowledge of anatomy and we strongly encourage all medical students to commit as much anatomy to memory as possible. All students who wish to explore Diagnostic Radiology as careers are encouraged to schedule exposures and electives with the program coordinator.

INTRODUCTION

Location(s):

Health Science Centre
St. Boniface Hospital
Children’s Hospital

Availability:

Electives are 2-4 weeks in durations.

Preceptors:

Dr. S. Sookhoo (St. Boniface General Hospital)
Dr. J. Kippen (Health Sciences Centre)

Contact Person:

204-787-1328

LEARNING OBJECTIVES (CanMEDS)

Medical Expert

As Medical Experts, physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills and professional attitudes in their provision of patient-centered care.

The student can expect to be actively involved in the service. This will encompass:

- Become familiar with the role of multimodality Diagnostic and Interventional Radiology and its role in in-patient and out-patient care.
- Become aware of the Radiologists role in the management of in-patients.
- Develop an improved ability to choose the appropriate imaging test for common medical concerns.
- Develop a dependable organ-specific approach to common imaging tests including Radiography, CT MRI, and Ultrasound.
- Be exposed to interventional procedures performed by radiologists.
Communicator
Physicians effectively facilitate the doctor-patient relationship and the dynamic exchanges that occur before, during, and after the medical encounter.

As Communicators, students will facilitate the doctor-patient relationship:

- Establish rapport and good communication with physicians, allied health care team, patients and families
- Effectively communicate relevant information to physicians and healthcare team
- Elicit relevant information and perspectives from physicians and the healthcare team

Collaborator
Physicians effectively work within a healthcare team to achieve optimal patient care.

As Collaborators, students will work effectively within the surgical team to achieve optimal patient care:

- Recognize and respect the roles, responsibilities and expertise of all healthcare professionals
- Demonstrate the ability to work as a team for the wellbeing of the patients.

Leader
Physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.

As Leaders, students will participate in the activities of the surgical service, making decisions, allocating resources, and contributing to the effectiveness of the health care team:

- Determine effective use of information technology
- Gain a better understanding of the allocation of healthcare resources.

Health Advocate
Physicians responsibly use their expertise and influence to advance the health and well-being of individual patients, communities and populations.

As Health Advocates, students will responsibly use their expertise and influence to advance the health and well-being of individual patients, communities and populations:

- Promote and participate in patient safety
- Develop an improved ability to choose the appropriate imaging test for patients
- Gain a better understanding of the benefits and risks associated with radiologic procedures

Scholar
Physicians demonstrate a lifelong commitment to reflective learning, as well as the creation, dissemination, application and translation of medical knowledge.

As Scholars, students will demonstrate a lifelong commitment to learning:
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- Ability to critically analyse their skills
- Critically appraises medical literature
- Shows motivation to improve their knowledge with reading and reviewing cases
- Demonstrates self-directed learning

Professional
As Professionals, physicians are committed to the health and well-being of individuals and society through ethical practice, profession-led regulation, and high personal standards of behaviour.

As Professionals, students are committed to health and well-being of individuals through ethical practice, profession-led regulation and high personal standards of behavior:

- Demonstrates integrity and honesty
- Understands principles of ethics and applies them to clinical situations
- Knows their own limitations

INFORMATION
These are locations, readings, evaluations, call responsibilities, etc.

Required Reading
Print and electronic resources are available for independent learning. Online resources and teaching include: learningradiology.com, auntminnie.com, bonepit.com, radiologyassistant.nl, chestx-ray.com and ctisus.com

Please contact the program coordinator if you are interested in signing out a book from our library.

Evaluations
On the first day of your elective you are met by the program coordinator and given all necessary documents for your rotation. You will be given a tour of the radiology department before being introduced to the preceptor you are working with that particular day.

As part of the evaluation process, each student is required to complete a power point (which will be added to our teaching files) on either an interesting case or topic related to radiology/diagnostic imaging. The students are given evaluations to have completed by the preceptors they work with during the rotation. The final ITAR is completed using the feedback provided from the evaluations and the power point.

On the last day of the rotation, electives meet the program coordinator for a brief exit interview. This gives the student a chance to give the program honest, constructive feedback and/or suggestions.

WARD ACTIVITIES
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These are examples of schedules, expectations, rotation details, etc. All the details below are subject to change.

Expectations

Some of the imaging modalities that medical students may be exposed to are:
- Plain Radiography
- Computed Tomography (CT)
- Magnetic Resonance Imaging (MRI)
- Ultrasound
- Angiography
- Mammography

Some of the areas that electives may be scheduled in are:
- General Radiology
- Abdominal Imaging
- Chest Imaging
- MSK
- Angiography (by special request)
- Ultrasound (by special request)
- Pediatric Imaging (by special request)

Teaching Sessions

Educational Rounds are held on Mondays, Tuesdays and Fridays at 3:30. The rounds alternate between sites, and are held in GG147 (HSC) and A2071-3 at St. Boniface Hospital.

Service Rounds

Grand Rounds run a couple of times a month over the noon hour.

Academic Schedule

Once a month our residents present an article at Journal Club.

Thursdays at 3:30 from Sept – May we offer Physics sessions that are taught at Health Sciences Centre in GG147.