



## Educational Objectives for Clinical Fellowship

***This form is for recognized specialists whose postgraduate medical training program is designed to give them additional expertise but does not lead to additional credentials for practice. The College of Physicians and Surgeons of Ontario (CPSO) requires the submission of a statement of objectives before issuing a postgraduate education certificate of registration for a clinical fellowship appointment.***

- Fellowship
- SEAP – Subspecialty Examination Affiliate Program
- AFC – Areas of Focused Competence Diploma Program

### Trainee Information

Name of Clinical Fellow: \_\_\_\_\_  
First name Last name

Specialty Certification:

Title of Certification: Radiology

Country Issuing Certification: \_\_\_\_\_

### General Information

Department Name: Medical Imaging

Division Name (If applicable): \_\_\_\_\_

Name of Fellowship (*Will appear on the Certificate of Completion issued by PGME – please inform PGME of any changes to name of fellowship*): Diagnostic Radiology (Abdominal Imaging Combined Clinical Research)

Fellowship Site: Mount Sinai Hospital-University Health Network-Women's College Hospital

Fellowship Start Date: \_\_\_\_\_ End Date: \_\_\_\_\_  
Month, Day, Year Month, Day, Year

If re-appointment:

Reappointment Start Date: \_\_\_\_\_ End Date: \_\_\_\_\_  
Month, Day, Year Month, Day, Year

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### Fellowship Overview

*Please provide a brief statement of the clinical focus and educational purpose of the fellowship:  
 The answer space below will expand to accept point form or paragraph entries. If this fellowship is a re-appointment, please describe the clinical focus and educational purpose of the re-appointment only.*

Abdominal imaging is the organ/system-based subspecialty of Diagnostic Radiology dedicated to diagnosis of diseases in the abdominal and pelvic region utilizing multimodality cross-sectional imaging.



## **Fellowship Objectives: CanMEDS Roles**

*Where applicable, please provide objective(s) for each of the following:*

*The answer space below will expand to accept point form or paragraph entries; enter "N/A" if individual CanMEDS role is not applicable*

### **1. 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. Medical Expert is the central physician Role in the CanMEDS framework*

- a) To become expert in diagnostic skills relevant for diagnosis and to allow therapeutic decisions for ethical and effective patient care
- b) To access and apply relevant information to clinical practice
- c) To demonstrate effective consultation services with respect to relevance of abdominal imaging studies in relation to patient care, education, and legal opinions
- 1.1) to acquire an understanding of the physical and technical aspects involved in the formation of images in computer tomography, magnetic resonance imaging, ultrasound and image-guided procedures
- 1.2) to understand the strengths and weaknesses of ultrasound/doppler, computer tomography, and magnetic resonance as they relate to abdominal imaging
- 1.3) to develop skills in the use of computers in both image acquisitions and post processing
- 1.4) to develop procedural skills which will include: interventional procedures using ultrasound and/or CT guidance
- 1.5) to become competent in the treatment of medical emergencies and complications related to radiological procedures
- 1.6) to provide a differential diagnosis based on imaging highlighting the diseases that are most likely
- 1.7) to recognize anatomical variations
- 1.8) to recognize artifacts and be able to suggest methods to eliminate them
- 1.9) to acquire a sound knowledge of the basis of abdominal imaging
- 1.10) to acquire a sound knowledge of natural history, anatomy, physiology, pharmacology, pathology and treatment of diseases related to abdominal imaging
- 1.11) to demonstrate subspecialty expertise in the cutting edge research in a field of study

### **2. Communicator**

*As Communicators, physicians effectively facilitate the doctor-patient relationship and the dynamic exchanges that occur before, during, and after the medical encounter.*

- a) To communicate new scientific knowledge and research results effectively to colleagues, patients, the public or granting and fund-raising agencies.
- b) To establish relationships with referring physicians as advocate for patients and families
- c) To obtain and synthesize relevant history and information from referring physicians, patients, and families
- 2.1) to effectively communicate with patients and with other health care professionals
- 2.2) to maintain complete and accurate medical records

### **3. Collaborator**

*As Collaborators, physicians effectively work within a healthcare team to achieve optimal patient care.*

- a) To effectively consult with other physicians and health care professionals
- b) To contribute effectively to inter-disciplinary team activities
- c) To provide abdominal imaging for optimal patient care, education and research
- 3.1) to effectively teach other physicians and health care workers regarding the role of medical imaging and its limitations
- 3.2) to counsel health care professionals on appropriate imaging for various health problems

### **4. Leader**

*As Managers, physicians are integral participants in healthcare organizations, organizing sustainable practices, making decisions about allocating **resources**, and contributing to the effectiveness of the healthcare system.*

*As research leaders one needs:*



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- a) To effectively lead translational research in Medical Imaging as a clinical scientist or clinician investigator
- b) To effectively educate, mentor and supervise more junior research colleagues.

As Managers, physicians are integral participants in healthcare organizations, organizing sustainable practices, making decisions about allocating resources, and contributing to the effectiveness of the healthcare system.

- a) To utilize time and imaging resources effectively to balance patient care, learning needs, outside activities
- b) To allocate abdominal imaging procedures and techniques for health care and health education resources wisely
- c) To utilize information technology to optimize patient abdominal imaging care, continued self-learning and other activities
- 4.1) to direct imaging algorithms based on clinical history and findings
- 4.2) to assign protocols for imaging studies
- 4.3) to monitor imaging studies and appropriately modify the protocol based on the findings

## 5. Health Advocate

*As Health Advocates, physicians responsibly use their expertise and influence to advance the health and well-being of individual patients, communities, and populations.*

- a) To recognize and respond to those issues where advocacy is appropriate, especially for the timely and judicious utilizing of abdominal imaging resources
- b) To identify important determinants of health affecting patients
- c) To contribute effectively to improved health of patients and communities
- 5.1) to triage physician requests regarding the urgency of an imaging study
- 5.2) to understand the fundamentals of quality assurance

## 6. Scholar

*As Scholars, physicians demonstrate a lifelong commitment to reflective learning, as well as the creation, dissemination, application and translation of medical knowledge.*

- a) To develop, implement and document personal continuing education strategy
- b) To critically appraise sources of medical information
- c) To facilitate learning of patients, students, residents and other health professionals
- d) To contribute to the development of new knowledge
- 6.1) to maintain current practice standards through continuing medical education
- 6.2) to critically appraise the abdominal imaging literature
- 6.3) develop skills in the use of computers in both image acquisitions and post processing
- 6.4) to understand the methodology of clinical research and appreciate the importance of basic research and outcome analysis
- 6.5) to develop skills to contribute to write academic papers and lead the writing of such papers
- 6.6) to develop specific skill in basic statistics to analyse study data relevant to clinical research in medical imaging.
- 6.7) to understand the Research Ethics and requirements to conduct human research in medical imaging.

## 7. 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.*

- a) Delivers highest quality care with integrity, honesty, and compassion
- b) Exhibits appropriate personal and interpersonal professional behaviors
- c) Practices abdominal imaging ethically consistent with obligations of a physician
- 7.1) suggest appropriate follow-up and management whether it be conservative, medical, surgical or further imaging
- 7.2) to appraise his/her own professional performance
- 7.3) to understand and follow the publication and authorship and research conduct guidelines as prescribed by the University of Toronto



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On completion of the University of Toronto Combined Clinical Research Fellowship in Abdominal Imaging, the graduate physician should be competent to lead research as a clinician scientist or clinician investigator and function as a consultant abdominal radiologist