



## 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 (Vascular and Interventional Radiology)

Fellowship Site: \_\_\_\_\_

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

### 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.*

Vascular and Interventional radiology is a subspecialization of radiology dedicated to acquiring the principles and techniques, knowledge, skill and experience necessary to provide appropriate clinical care to patients and perform image guided interventions.



## **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 an expert in diagnostic skills relevant for diagnosis of vascular and non vascular pathology 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 vascular and interventional radiology 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, angiography and conventional (plain film) imaging
- 1.2) to understand the strengths and weaknesses of ultrasound/doppler, nuclear medicine, computer tomography, magnetic resonance and angiography as they relate to vascular and interventional radiology
- 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: fluoroscopy, ultrasound guidance, CT guidance, biopsy techniques, vascular and non vascular intervention techniques and diagnostic angiography
- 1.5) to become competent in the treatment of medical emergencies and complications related to image guided procedures
- 1.6) to provide a differential diagnosis based on imaging findings 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 interventions performed in vascular and interventional radiology including indications, techniques and clinical outcomes
- 1.10) to acquire a sound knowledge of natural history, anatomy, physiology, pharmacology, pathology and treatment of diseases related to vascular and interventional radiology

### **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 establish relationships with referring physicians as an advocate for patients and families and the healthcare system
- b) To obtain and synthesize relevant history and information from referring physicians, other care providers, 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 vascular and interventional radiology 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.*



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- a) To utilize time, budgetary, clinical and imaging resources effectively to balance patient care, learning needs, outside activities
- b) To allocate finite vascular and interventional radiology techniques or procedures for health care and health education resources wisely
- c) To utilize information technology to optimize patient care, continued self-learning and other activities
- 4.1) to direct imaging and intervention algorithms based on clinical history and findings
- 4.2) to monitor imaging studies and appropriately modify the protocol based on the findings relevant to planned interventions.

## 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 utilization of vascular and interventional radiology 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 intervention
- 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.
- 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 vascular and interventional radiology literature
- 6.3) to understand the methodology of clinical research and appreciate the importance of basic research and outcome analysis
- 6.4) to conduct independent research overseen by a staff interventional radiologist relevant to the advancement of understanding or clinical outcomes in vascular and interventional radiology
- 6.5) to assist with and promote ongoing research endeavors within the division

## 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 vascular and interventional radiology 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

## **Additional Comments** (Optional)

On completion of the University of Toronto Fellowship program in Vascular and Interventional Radiology, the graduate physician should be competent to function as a consultant vascular and interventional radiologist.