

# **HENRY FORD PROVIDENCE HOSPITAL**

## **INTERVENTIONAL RADIOGRAPHY/ SPECIAL PROCEDURES TRAINING PROGRAM** rev. 10/24

### **GENERAL INFORMATION**

HF Providence Southfield is a part of the Henry Ford Health System. HF Providence Southfield, is located in Southfield, MI on Nine Mile Road between Southfield and Greenfield Roads. We are dedicated to making a positive difference in the lives and health status of individuals and communities, especially the poor.

HF Providence Southfield is a full-service, acute care, teaching hospital with 459 beds and more than 900 physicians practicing in over 50 specialties.

The Diagnostic Imaging Department of HF Providence Southfield is a modern multiple modality imaging facility. This includes diagnostic radiography, mammography, ultrasonography, nuclear medicine, computerized tomography, magnetic resonance imaging, angiography, special procedures, and radiation oncology. Constantly striving to be a technological leader, the Diagnostic Imaging Department employs many new innovations.

### **MISSION STATEMENT**

Our mission is to provide each student with an educational opportunity that will improve their technical skills. Through goal-setting and achievement, the students will challenge themselves toward excellence in patient care with the radiological sciences.

### **EQUAL OPPORTUNITY STATEMENT**

Qualified applicants are considered for admission to the HF Providence Southfield School of Computed Tomography without regard to race, color, religion, sex, height, weight, national origin, age, sexual preference, arrest record, marital or veteran status, or the presence of non-job related medical condition or disability. It is the applicant's responsibility to notify us of any reasonable accommodation necessary to perform the essential duties of the position for which the applicant has applied.

### **CAREER DESCRIPTION**

Interventional radiology is a medical subspecialty of radiology utilizing minimally-invasive image-guided procedures to diagnose and treat diseases in nearly every organ system. The concept behind interventional radiology is to diagnose and treat patients using the least invasive techniques currently available in order to minimize risk to the patient and improve health outcomes. These procedures have less risk, less pain and less recovery time in comparison to open surgery.

Interventional Radiology (IR) originated within diagnostic radiology as an invasive diagnostic subspecialty. IR is now a therapeutic and diagnostic specialty that comprises a wide range of minimally invasive image-guided therapeutic procedures as well as invasive diagnostic imaging. The range of diseases and organs amenable to image-guided therapeutic and diagnostic procedures are extensive and constantly evolving, and include, but are not limited to, diseases and elements of the vascular, gastrointestinal, hepatobiliary, genitourinary, pulmonary, musculoskeletal, and, the central nervous system. As part of IR practice, IR physicians provide

patient evaluation and management relevant to image-guided interventions in collaboration with other physicians or independently. IR procedures have become an integral part of medical care.

## **COURSE OF STUDY**

The post-graduate program is a 6 to 9-month (IR Basics) with an additional 3-6 months possible opportunity to focus on Neuro procedures, (must be asked to participate in the 2nd portion) program consisting of competency-based clinical education. The training will be available to a maximum of one trainee per 6- month cycle. The course is a 40-hour training week, 10- hour days, Monday-Friday, 7:00 am to 5:00 pm (with Wednesday being the general off day). Students who sign on for this training will need to understand that the daily schedule will fluctuate in terms of hours and days. This is primarily due to the nature of special procedures often being an emergent situation rather than scheduled.

The IR basics section (six- nine months) will include the opportunity to be trained in:

Vascular Access (PICC, Port, Permcath)  
Joint Injections/ Arthrograms  
Myelograms/ Lumbar Punctures  
GJ-Tubes & G tube Insertions/ Exchanges  
IVC Filters/ Placements and Retrievals  
UAE/ GI Bleed Embolization  
Nephrostomy Tube Placements/ PTC Tube placements/ Stent Placements/ Balloon Angioplasty

During the initial three to four months, the specials department personnel will decide whether to offer a trainee the opportunity to continue (another 3-6 months) in the program to be trained in Neuro procedures which include:

Diagnostic Cerebral Angiogram  
Follow- up Diagnostic Cerebral Angiogram  
Cerebral Angiogram w/ Thrombectomy  
Cerebral Angiogram w/ Coiling  
Cerebral Angiogram w/ Angioplasty and/or Stenting  
Spinal Angiogram  
Kyphoplasty/ Vertebroplasty

During the program, you will be able to utilize a variety of equipment including 2- Siemens bi-plane, Toshiba Bi-Plane and GE Specials equipment. You will be able to participate in a wide variety of clinical situations from post-trauma patients, biopsy patients, in- and out-patients.

One class is enrolled every year, starting in October. Cost for the program is \$1,000 (for the first six months) which does not include modules/books required for the program. The trainee will be at HF Providence Southfield, with a possibility of rotating out to HF Providence Hospital, Novi.

The didactic portion is a self-directed series of Modules from the ASRT titled Vascular-Interventional Essentials. You will be able to use the program without purchasing the credits.

## **CANDIDATE QUALIFICATIONS**

Individuals who have graduated from an accredited radiologic technology program, and who are in good standing with the ARRT with proper RT(R) certification may apply for possible entry in

the program. Registry eligible students may apply, but must pass the registry within three months of entry in the program. An interview is required, during which candidates are evaluated on:

Personal impression  
Work Experience  
Interpersonal Skills  
Educational Background\*

Educational background will allow for those applicants who have taken advanced levels of Physics, Chemistry, Anatomy and Physiology, and Mathematics to increase their academic score. These values will be determined by reviewing college and/or high school transcripts. A grade of C or better is required to receive credit for the class with classes having been taken in the previous 7 years preferred.

### **PROGRAM GOALS**

To produce clinically competent entry-level Vascular-Interventional technologists (first nine months is focused on vascular access, joint injections, myelograms/lumbar punctures, insertions, IVC filter placement, and embolization); the second three months focuses on NeuroImaging cases including various forms cerebral angiograms, angioplasty and stenting; and spinal angiograms, vertebroplasty and/ or kyphoplasty.

Graduates who are considered employable in the field of Special Procedures/ Vascular Intervention.

### **WHAT HF PROVIDENCE EXPECTS OF YOU**

Regular attendance and completion of all clinical competencies.  
Agreement to abide by the policies and procedures of the Interventional/ Special Procedures training program.

### **WHAT YOU CAN EXPECT FROM HENRY FORD PROVIDENCE**

Upon successful completion of all course requirements, you will receive a certificate of graduation for the HF Providence Southfield Vascular –Interventional Program with the possibility of a second certificate if completing the Neuroimaging portion of the year long program.

You will be clinically prepared and able to challenge the national certification examination given by the ARRT.

### **WHAT YOUR FUTURE HOLDS**

Certification as a Registered Vascular Interventionalist, with successful completion of the ARRT Vascular Interventional Registry. You will be authorized to use the title RT(R)(VI) after your name.

### **PROSPECTIVE APPLICANT PROCEDURE:**

Submit the completed application and technical standard survey, along with a \$40 application fee. Deadline is July 1<sup>st</sup> of each year. One session is filled per year, with the Vascular Interventional training occurring in the first nine months; and the Neuro portion is the second six months. You do not have to do the second portion. Tuition is currently \$1,000 (non-refundable).

Have your learning institutions submit official transcripts of all your college, radiologic technology school grades.

Have three letters of professional recommendation sent to the program.

Address all communications to:

HF Providence Southfield  
Mary A. Kleven, MAOM, B.S., R.T.(R)(M)  
Program Director  
School of Radiologic Technology- Interventional/ Specials Training Program  
HF Providence Southfield Hospital  
16001 W. Nine Mile Road  
Southfield, MI 48037

Phone 248-849-3293 Fax 248-849-5395

E-mail: [Mkleven1@hfhs.org](mailto:Mkleven1@hfhs.org)

All students must agree to purchase the **ASRT IR Basics** modules series to fulfill the didactic requirements for the ARRT registry. The cost of the module series varies on your membership in the ASRT or not.

Students will also participate in the Cross-Sectional anatomy course to ensure the ability to look at imaging from any modality when assisting during exams.

HF Providence Southfield  
SCHOOL OF RADIOLOGIC TECHNOLOGY

TECHNICAL STANDARDS SURVEY rev. 7/19

All applicants to the School of Radiologic Technology are notified of the minimum physical requirements appropriate to radiologic technology. The inability to perform any of the listed activities indicates a reduced chance of successful completion of the program, or employment in this profession. In such a case, it is recommended that the student not enter the radiography program.

Please read the following statements identifying the technical standards and answer the question provided below. This form is to be returned by the candidate along with the completed application.

The Computed Tomography technologist must have sufficient strength and motor coordination required to perform the following physical activities:

- Standing/walking or sitting during most of the clinical training.
- Frequent reaching and manual dexterity in handling accessory equipment for diagnostic purposes. (lift a minimum of 30 pounds)
- Frequently transporting, moving, lifting and transferring patients from a wheelchair or stretcher to and from a radiographic table.
- Possess normal visual and audio acuity. This is necessary to report visual observations of patients and read written orders. Hearing must be adequate to assess patient needs and communicate verbally with other health care providers.
- Possess sufficient verbal and written skills to communicate needs promptly and effectively in English.

Are you able to perform all of the technical standards identified above with or without reasonable accommodations?

YES \_\_\_\_\_

NO \_\_\_\_\_

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

## HF Providence Southfield

### Magnetic Resonance Screening Form for Students

Magnetic resonance (MR) is a medical imaging system in the radiology department that uses a magnetic field and radio waves.

This magnetic field could potentially be hazardous to students entering the environment if they have specific metallic, electronic, magnetic, and/or mechanical devices. Because of this, students must be screened to identify any potential hazards of entering the magnetic resonance environment before beginning clinical rotations.

Pregnancy Notice: The declared pregnant student who continues to work in and around the MR environment should not remain within the MR scanner room or Zone IV during actual data acquisition or scanning.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

	Circle Yes or No	
1. Have you had prior surgery or an operation of any kind?	Yes	No
If yes to question 1, please indicate the date and type of surgery: Date: _____ Surgery Type: _____		
2. Have you had an injury to the eye involving a metallic object (e.g. metallic slivers, foreign body)?	Yes	No
If yes to question 2, please describe: _____		
3. Have you ever been injured by a metallic object or foreign body (e.g., BB, bullet, shrapnel, etc.)?	Yes	No
If yes to question 3, please describe: _____		
Please indicate if you have any of the following:		
Aneurysm clip(s)	Yes	No
Cardiac pacemaker	Yes	No
Implanted cardioverter defibrillator (ICD)	Yes	No
Electronic implant or device	Yes	No
Magnetically-activated implant or device	Yes	No
Neurostimulator system	Yes	No
Spinal cord stimulator	Yes	No
Cochlear implant or implanted hearing aid	Yes	No
Insulin or infusion pump	Yes	No
Implanted drug infusion device	Yes	No
Any type of prosthesis or implant	Yes	No
Artificial or prosthetic limb	Yes	No
Any metallic fragment or foreign body	Yes	No
Any external or internal metallic object	Yes	No
Hearing aid	Yes	No
Other device: _____	Yes	No

I attest that the above information is correct to the best of my knowledge. I have read and understand the entire contents of this form and have had the opportunity to ask questions regarding the information on this form. Should any of this information change, I will inform my program director.

Signature of Person Completing Form: \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

The student has not identified any contraindications to entering MR Zone III or IV.

The student has identified contraindications to entering MR Zones III and IV. The student has been advised not to progress past MR Zone II unless screened by an MR Level II Technologist onsite at each clinical setting.

Form Information Reviewed By: \_\_\_\_\_  
Print name
Signature
Title

This form is provided by the JRCERT as a resource for programs. Programs are encouraged to personalize the form prior to use.

**Remember: The magnet is always on!**