RADIOLOGIC TECHNOLOGY

HINDS COMMUNITY COLLEGE

RADIOLOGIC PROCEDURE REQUIREMENT

The purpose of the radiologic procedure requirement is to allow the applicant to become knowledgeable of several types of radiologic procedures that are performed by the students and technologists. The applicant is required to review the following information and familiarize themselves with the radiographic procedures listed throughout the PowerPoint. Documentation will not be required for this prerequisite.

GENERAL INFORMATION

RESPONSIBILITIES OF A RADIOLOGIC TECHNOLOGIST

- Accurately position patients for various exams in order to produce Quality Diagnostic Images. It is not in the scope of practice of a radiologic technologist to interpret films, that is the responsibility of the radiologist.
- Be educated in anatomy, patient positioning, equipment protocols, radiation protection
- Maintain patient confidentiality at all times
- Be able to think critically in challenging situations

RESPONSIBILITIES OF A RADIOLOGIC TECHNOLOGIST

- Practice Radiation Safety
- Perform Basic Patient Care Skills (Vital Signs, CPR, Wheelchair/Stretcher Transfers, Contact/Standard Precautions, Venipuncture, Care of Patient Medical Equipment)
- Possess good oral communication skills. The technologist should be able to take a detailed medical history, answer patient questions, explain various procedures, interact with other members of the healthcare team.

PATIENT INTERACTION

- Radiologic Technologists see two main classifications of patients, either inpatients or outpatients.
- Whether inpatient or outpatient, the technologist may encounter several different types of patients. Some of those include:
  - Seriously Ill and Traumatized Patients
  - Speech and Hearing Impaired Patients
  - Non-English Speaking Patients
  - Mentally Impaired Patients
  - Pediatric and Geriatric Patients
  - Visually Impaired Patients
  - Substance Abusers
  - Terminally Ill Patients

EDUCATION OPTIONS AND CERTIFICATIONS

After completion of the 2-year radiologic technology program, the graduate will take the national registry examination.

Upon passing the national registry examination, the radiologic technologist may choose to specialize in any of the following modalities listed below.

Computed Tomography (CT)

Mammography

Interventional Radiography

Magnetic Resonance Imaging (MRI)

Radiation Therapy

Nuclear Medicine

Ultrasound

Bone Densitometry

AREAS WITHIN THE HOSPITAL

Radiologic Technologists may be found in many different areas in the hospital setting.

WHERE DO RADIOLOGIC TECHNOLOGISTS WORK?

- Hospitals
  - ER, Routine/Fluoroscopy, Surgery, Portables, Specialty Areas
- Outpatient Clinics
- Surgical Centers
- Physician's Offices
- Mobile Radiography Company
- Travel/Contract

EMERGENCY ROOM

- Most exams performed in the ER are trauma related and may be preformed in the ER x-ray room or in the patient's room with a portable machine. Some exams include:
  - Broken Bones
  - Sports Injuries
  - Motor Vehicle Accidents
  - Respiratory Distress
  - Heart Attack
  - Stroke

ROUTINE/FLUOROSCOPY

Both inpatients and outpatients may come to the main radiology department or to an outpatient facility for various routine/fluoroscopy exams. Some exams include:

Fluoroscopy	Routine
Colon/Barium Enema Exam	Chest X-Ray
Stomach/Upper Gastrointestinal Exam	Abdominal Series
Myelogram/Lumbar Puncture	Upper/Lower Extremity Exams
Arthrogram	Skull/Facial Exams
Intravenous Urogram/Cystogram	Spinal Column

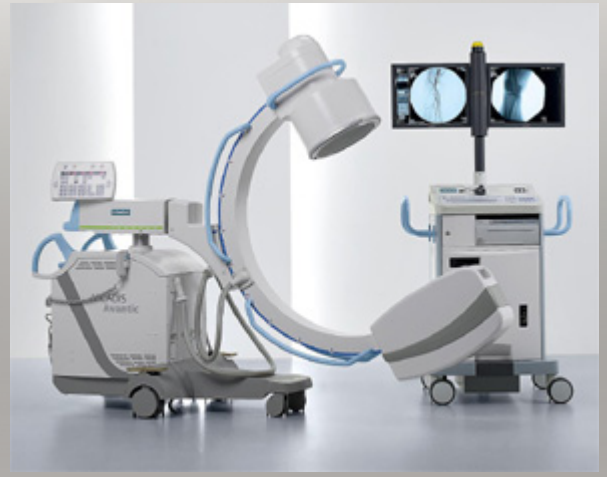
PORTABLE RADIOGRAPHY

Not all patients can travel to the radiology department. Taking a portable radiographic unit to the patient is a common practice in the radiology department. Locations may include: ICU, NICU, CVU, PACU, and regular patient rooms.

SURGERY

RADIOLOGIC TECHNOLOGISTS CAN ALSO BE APART OF THE SURGICAL TEAM. THEIR DUTIES INCLUDE:

- Sterile technique
- Operation of a C-Arm/Portable Machine
- Proper Surgical Attire
- Cleaning/Disinfecting Radiology Equipment
- Strong Communication with Surgical Team Members



C-ARM USED IN SURGERY

HELPFUL LINKS

- https://medlineplus.gov/ency/article/003337.htm
- https://www.asrt.org/main/careers/careers-in-radiologic-technology
- https://www.radiologyinfo.org/
- https://www.arrt.org/about-the-profession/learn-about-the-profession