

Progression of Training and Skills Radiology

Preamble

Numerous longitudinal experiences during residency allow the self-directed resident to acquire the fundamental radiology concepts relevant to the practice of family medicine. Additionally, the minimum two-week radiology rotation teaches the capabilities of a hospital radiology department and to apply radiology to daily practice. In the continuity clinic, the resident has faculty assistance with interpretation of all x-rays taken at the point of care, and radiologic topics are also covered on clinical rotations that include Obstetrics, Emergency Medicine, Pediatrics, Orthopedics, NICU and ICU. The cognitive and behavioral objectives for the radiology rotation are comprehensive and should thus be viewed as skills that develop throughout the residency experience.

Goals

To gain an understanding of radiology to include the principles of radiology, basic principles of image interpretation, and the range, uses, limitations and costs of diagnostic techniques.

Objectives

- Demonstrate a basic understanding of radiologic investigations of:
 - the chest, including heart
 - the head and spine, with emphasis on trauma
 - the abdomen, with emphasis on CT anatomy
- State the fundamental principles of the physics of
 - Radiography
 - CT
 - Ultrasound
 - MRI
- Describe the fundamentals of the physics of trauma radiology
- Describe and summarize for patients the basic principles of radiation, its effects, and radiation protection
- Discuss the value, indications, limitations, sequencing and costs of diagnostic techniques
- Understand optimal sequencing of imaging tests and their specific preparation
- Be knowledgeable of the American College of Radiology Appropriateness Criteria

The goals and objectives are achieved through a combination of structured experience including experience in the Emergency Room, together with didactic instruction.

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Suggested reading:

Radiology Teaching Files - radiopaedia.org

Radiologic Anatomy

Keats TE (1984) An Atlas of Normal Roentgen Variants That May Simulate Disease