

**Harbor-UCLA Medical Center
GOALS & OBJECTIVES**

**Diagnostic Radiology
Transitional Year Intern Rotation**

Contact Information:

Program Director: Mark Mehringer, M.D.

Location: Harbor-UCLA Medical Center

Type of Rotation: Elective

Length of Rotation: 2 - 4 weeks

OVERVIEW

An elective rotation, which offers one on one precepting with staff radiologist, reading films and assisting in any and all invasive procedures, performed.

The **GOAL** of this rotation is to introduce the basics of radiologic readings and principles to the TY Resident, to be able to appropriately interpret common studies and scans.

SPECIFIC OBJECTIVES

By the completion of the rotation in radiology, the transitional year resident will be able to:

- a. Understand the basics of radiologic principles, including the capability of machines and different types of films
- b. Demonstrate to the radiologist the basic knowledge and skill necessary to read normal and abnormal plain thoracic, bone, and computerized tomography films.
- c. Correlate and interpret the clinical signs and symptoms with the x-ray findings
- d. Correlate the physician's diagnostic and therapeutic plan with the need for radiologic investigations

CLINICAL EXPERIENCE

Reading all films and assisting in procedures with Radiology Residents and Staff Radiologists.

SUPERVISION

Direct at all times by Sr. Resident/Staff Radiologist. Films are read together and dictated by staff radiologist. Staff radiologist performs all invasive procedures.

METHODS OF IMPLEMENTATION OF GOALS AND OBJECTIVES

Goals and objectives are implemented through one on one precepting, direct resident and staff supervision, faculty and resident role modeling, case-based readings, and daily X-ray reading rounds.

Competency-based Objectives of the Radiology Rotation:

Patient Care

Goal

TY Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. *TY Residents are expected to:*

Knowledge Objectives:

- (1) Understand imaging protocols and contrast media usage well,
- (2) Recognize the findings of life-threatening conditions and respond urgently,
- (3) Discuss the classification, symptoms, and signs of contrast reactions and the clinical management including appropriate use of pharmacologic agents and their mode of administration and doses,
- (4) Understand the pre-medication regimen for contrast sensitive patients including drugs, doses, and dose scheduling, and
- (5) Exposure to radiographic-guided biopsy indications and techniques.

Skill Objectives:

- (1) Become facile with PACS and Voice Recognition (TalkTech) and utilize available technical and written information sources (Horizon, CDA, TalkTech, etc.) to manage patient information, and
- (2) Coordinate activities in the reading room, including providing direction for the technologists, consultation for other clinicians, and answering the phone.

Behavior and Attitude Objectives:

- (1) Work with the health care team in a professional manner to provide patient-centered care, and
- (2) Apply ACR communication guidelines and notify referring clinician for urgent, emergent, or unexpected findings, and document in dictation.

Medical Knowledge

Goal

TY Residents must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to patient care. *TY Residents are expected to:*

Knowledge Objectives:

- (1) Discuss radiographic technology and its application, including dosimetry,
- (2) Identify relevant anatomic structures on radiographic images of the abdomen and pelvis, and
- (3) Diagnose common pathologic conditions in the abdomen and pelvis and understand their pathophysiology.

Skill Objectives:

- (1) Accurately interpret all but the most complex CTs of the abdomen and pelvis, and
- (2) Perform and interpret basic post-processing (3D) images.

Behavior and Attitude Objectives:

- (1) Recognize limitations of personal competency and ask for guidance when appropriate.

Practice-Based Learning and Improvement

Goal

TY Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning. *TY Residents are expected to develop skills and habits to be able to:*

Knowledge Objectives:

- (1) Assess radiographic images for quality and suggest methods of improvement.

Skill Objectives:

- (1) Demonstrate independent self-study using various resources including texts, journals, teaching files, and other resources on the internet, and
- (2) Facilitate the learning of students and other health care professionals.

Behavior and Attitude Objectives:

- (1) Incorporate formative feedback into daily practice, positively responding to constructive criticism, and
- (2) Follow-up interesting or difficult cases without prompting and share this information with appropriate faculty and fellow residents.

Systems Based Practice

Goal

TY Residents must demonstrate an awareness of, and responsiveness to, the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care. *TY Residents are expected to:*

Knowledge Objectives:

- (1) Understand how their image interpretation affects patient care.

Skill Objectives:

- (1) Provide accurate and timely interpretations to decrease length of hospital and emergency department stay, and
- (2) Appropriately notify the referring clinician if there are urgent or unexpected findings and document such without being prompted; and
- (3) Practice using cost effective use of time and support personnel.

Behavior and Attitude Objectives:

- (1) Advocate for quality patient care in a professional manner, particularly concerning imaging utilization issues.

Professionalism

Goal

TY Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. *TY Residents are expected to demonstrate:*

Knowledge Objectives:

- (1) Understanding of the need for respect for patient privacy and autonomy, and
- (2) Understanding of their responsibility for the patient and the service, including arriving in the reading room promptly each day, promptly returning to the reading room after conferences, completing the work in a timely fashion, and not leaving at

the end of the day until all work is complete. If the resident will be away from a service (for time off, meeting, board review, etc.), this *must* be arranged in advance with the appropriate faculty and/or fellow.

Skill Objectives:

(1) Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.

Behavior and Attitude Objectives:

(1) Respect, compassion, integrity, and responsiveness to patient care needs that supersede self-interest.

Interpersonal and Communication Skills

Goal

Residents must demonstrate interpersonal and communication skills that result in the effective exchange of information and teaming with patients, their families, and professional associates. *TY Residents are expected to:*

Knowledge Objectives:

(1) Know the importance of accurate, timely, and professional communication.

Skill Objectives:

(1) Generate reports on most examinations with appropriate structure, content, accuracy and timeliness,

(2) Communicate effectively with physicians, other health professionals, and

(3) Obtain informed consent with the utmost professionalism.

Behavior and Attitude Objectives:

(1) Work effectively as a member of the patient care team.