**Stanford University Department of Radiology**

**Radiology Residency Program Goals and Objectives**

**Overall Program Goals and Objectives 2011 - 2012**

The general goals for Radiology Residency training in the Stanford University Department of Radiology include:

1. To provide education and training sufficient to enable the trainee to independently perform and interpret diagnostic imaging studies to the highest standards of safety, quality, and accuracy.
2. To provide education and training in the safe and effective uses of radiation, ultrasound, radioactivity, and magnetic resonance in diagnostic imaging and image-guided therapies according to ALARA principles.
3. To provide the trainee with background and opportunities to further research and creative work in the diagnostic imaging or interventional radiology fields
4. To make the trainee aware of the socioeconomic context for the practice of Radiology

The specific core competencies applicable to these goals on all residency rotations at all levels of training include:

**I. Patient care**

* Ensure patient safety and appropriate resource utilization by thoroughly reviewing the patient history. Be sure the correct procedure has been ordered and the appropriate protocol written to answer the clinical question. Be familiar with radiation doses for most common procedures.
* Communicate results to referring clinicians in a timely fashion
* Know the indications and contraindications for all procedures and contrast media used on this service.

**II. Medical knowledge**

* Engage in continuous learning and apply appropriate state of the art diagnostic and/or interventional radiology techniques to meet the imaging needs of patients, referring physicians and the health care system
* Develop a study program to master the curriculum for the various rotations as outlined in the curriculum documents.

**III. Practice-based learning and Improvement**

* Be familiar with and utilize our department’s online Policies and Procedures manual, available at xray.stanford.edu
* Utilize online and print resources to research current imaging techniques and diagnostic methods. Links are available on the residency website xray.stanford.edu
* Develop an approach to problem solving at the point of care (workstation) using print and online resources.
* Be familiar with important Radiology subspecialty society consensus guidelines. These are posted online at the residency website
* Be familiar with ACR appropriateness criteria and ACR practice guidelines for evidence-based patient management.

**IV. Professionalism**

* Commit to high standards of professional conduct in interactions with colleagues, staff, and patients demonstrating honesty, integrity, compassion, and altruism.
* Follow principles of ethics and confidentiality and consider religious, ethnic, gender, educational, and other differences in interacting with patients and other members of the health care team.

**V. Interpersonal and communication skills**

* Communicate effectively and courteously with patients, colleagues, referring physicians and other members of the health care team concerning imaging appropriateness, informed consent, safety issues and results of imaging tests or procedures.
* Dictate reports of all imaging studies clearly and concisely, communicating the findings, sense of urgency, and any necessary follow-up. Contact referring physicians with any critical findings and document the communication in the dictated report.
* Identify yourself before interacting with patients and their families, and clearly explain any procedures to be done in language appropriate to the patient's level of education.
* Demonstrate compassion, patience, and empathy when performing procedures on patients.

**VI. Systems-based practice**

* Understand the Stanford hospital system for ordering and scheduling imaging examinations. Be familiar with imaging resource constraints and their potential impact on patient care.
* Identify workflow inefficiencies and offer constructive criticism for improving them to supervising faculty.
* Understand the third party payment system with respect to billing and coding of radiology reports, and the impact of coding on reimbursement.
* Consult with other healthcare professionals and educate healthcare consumers regarding the most appropriate utilization of imaging resources
* Be familiar with the role of imaging studies within the larger context of the health care system.