

Radiology CT/US-Guided Procedures

Institution: Vanderbilt University Medical Center

Duration: 4 weeks

Supervising Physician:

Contact Information:

Year of Training: PGY-1

Educational Objectives:

The CT/US-guided procedures rotation is designed to give surgical interns practical experience in using computed tomograph and ultrasound to guide tumor biopsies, aspirations and abscess drainages.

Patient Care & Medical Knowledge Requirements:

- ✓ Resident arrives at the procedures reading board by 8:00am. Procedures generally continue until around 5:00pm.
- ✓ Resident will work with the radiology residents and attending on the service to help plan the cases for the day.
- ✓ Residents will be expected to accompany the radiology attending and/or resident in performing CT and Ultrasound-guide procedures
- ✓ Residents will assist as appropriate in evaluating patients prior to procedures, obtaining consent for procedures and writing post-procedural notes and other paperwork.

Practice-based Learning & Improvement Goals:

- ✓ It is expected that the residents will obtain an understanding of how image guidance is used for needle interventions.
- ✓ It is expected that the residents will obtain knowledge of the proper techniques for advancing needles under the both ultrasound and CT guidance.
- ✓ The residents will be educated in how to choose the best pathway for intervention to various sites of pathology.
- ✓ The residents will obtain hands-on training in performing CT and ultrasound guided interventions.
- ✓ The resident is not responsible for radiology call during the rotation, but may have obligations to the surgery department for call.

Practice-Based Learning and Improvement

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 life-long learning. Residents are expected to develop skills and habits to be able to meet the following goals:

- ✓ Write an accurate, detailed, and legible preoperative assessment and counseling note on all patients for which he/she serves as a proceduralist.
- ✓ Utilize assigned journal articles as well as available textbook chapters and information technology (including PubMed search and literature review)
- ✓ Participate in the education of patients, families, students, residents, and other health professionals.
- ✓ Incorporate formative evaluation feedback into daily practice.

Interpersonal and Communication Skills

- ✓ The resident should ensure that the attending is aware of the progress of all patients on the service and/or in the ROCU (radiology recovery unit).
- ✓ The resident should clearly, accurately, and respectfully communicate with nurses and other Hospital employees.
- ✓ The resident should clearly, accurately, and respectfully communicate with referring and consulting physicians, including residents.
- ✓ The resident should clearly, accurately, and respectfully communicate with patients and appropriate members with their families about identified disease processes (including complications), the expected courses, operative findings, and operative procedures.
- ✓ The resident should ensure that clear, concise, accurate, and timely medical records are maintained on all patients.
- ✓ The resident should be able to clearly and accurately teach medical students and junior residents about the procedures performed on this rotation when qualified to do so by hospital and program policy.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to

ethical principles. Residents must:

- ✓ Demonstrate compassion, integrity, and respect for others.
- ✓ Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.
- ✓ Demonstrate sensitivity to issues of age, race, gender, and religion with patients, family, and members of the healthcare team.
- ✓ Demonstrate respect for patient privacy and autonomy.
- ✓ Remain honest with all individuals at all times in conveying issues of patient care.
- ✓ Respond to the needs of the patient above one's own needs and desires.
- ✓ Maintain high standards of ethical behavior in all professional activities.
- ✓ Demonstrate a commitment to the continuity of patient care to carrying out professional responsibilities or through assuring that those responsibilities are fully and accurately conveyed others acting in his/her stead.
- ✓ Understand the institutional policy on duty hours and remain compliant with all duty hour regulations. Residents must enter the number of hours spent in the hospital into the tracking system within 24 hours of duty.
- ✓ Be properly and professionally attired at all times while engaged in patient care.
- ✓ Be properly and professionally groomed at all times when engaged in patient care.
- ✓ At all times treat patients, families, and all members of the healthcare team with respect.
- ✓ Reliably be present in prearranged places at prearranged times except when actively engaged in the treatment of a medical or surgical emergency. The resident must notify the appropriate supervisor if he or she will be unable to be present.
- ✓ Remain compliant with all required training designated by the institution.

Systems-based practice

- ✓ The resident should be able to assess the risks and benefits of all options for treating patients who may benefit from an image-guided procedure.
- ✓ The resident should be able to summarize the financial costs, potential complications, and long-term expectations for planned procedures.
- ✓ The resident should be able to determine the benefit of additional treatment by other services including potential operative options and non-treatment.
- ✓ The resident should be able to determine and convey to appropriate individuals the instruments and other materials necessary for all procedures.

Description of Clinical Experiences:

Specific daily responsibilities of the PGY-1 Resident include:

- ✓ Working with the radiology residents on the service for pre-procedural workup of patients, including history and physical when necessary
- ✓ Working with the radiology residents on the service to obtain consent for the procedure to be performed.
- ✓ Working with the radiology residents and attending to plan the interventional approach for each case.
- ✓ Assisting in the performance of the procedures for the day.
- ✓ Working with the radiology residents on the service for post-procedural care of the patients.
- ✓ Assisting in evaluating potential "add-on" cases for suitability for image-guided intervention.

Description of Didactic Experiences:

Attend all scheduled education and conferences while on rotation.

Evaluation Process:

Faculty and senior residents will evaluate the performance of each resident using these goals and objectives. Each resident on the service will evaluate the rotation, the service, faculty and any senior residents also on the rotation.

Other Important Rotation Information:

