GOALS AND OBJECTIVES FOR PGY3 CARDIOTHORACIC SURGERY RESIDENT ON THE CT/MRI/ECHOCARDIOGRAPHY SERVICE

Description:
Residents will spend one month working directly with attending radiologists, learning how to perform and read chest/abdomen/pelvis CT scans and MRIs, specifically studying cardiac, aortic, coronary, thoracic, esophageal, and mediastinal anatomy and one month working directly with echo cardiologists performing and reading transthoracic and transesophageal echos. We believe residents must be proficient in reading these studies in order to evaluate patients preoperatively, as well as intraoperatively (pre and post-procedure).

(1) Medical Knowledge
1. Understand basic aspects of cardiac echo, including physical principles, cardiovascular anatomy, and pathophysiology.
2. Understand calculation of pressure gradients and valve areas with echo.
3. Ability to interpret ventricular systolic/diastolic/EF function with echo.
4. Ability to grade and determine anatomical abnormality of valvular disease abnormality.
5. Ability to interpret common cardiac pathologic conditions by echo, including valvular diseases/HOCM/cardiac masses/wall motion abnormalities/pericardial effusions/cardiac tamponade/edocarditis/aortic root aneuryms/ASDs.
6. Understand advantages and disadvantages of both CT and MRI scanning.
7. Understand contrast and radiation requirements for CT scanning.
8. Utilizing CT, recognize/define common cardiothoracic conditions, including differentiation between aortic dissections/aneuryms/IMH, cardiac tumors, coronary anatomy, pulmonary emboli, lung masses, pneumonias, pleural effusions/empyemas, and mediastinal masses.
9. Understand principles of MR Imaging, including when to use intravenous contrast agents.
10. Ability to use MR imaging to evaluate ventricular structure and function, as well as common cardiac conditions.

(2) Patient Care
1. Ability to perform transthoracic echo and Doppler examination, including interpretation; understand strengths and limitations of the study.
2. Ability to perform stress echo examination, under supervision.
3. Ability to perform transesophageal echo.

(3) Professionalism
1. The ability to be honest, reliable, and respectful of the religious, racial, and gender characteristics of patients, their families and other members of the health care team.
2. The ability to recognize when to seek assistance from more experienced colleagues.
3. Deliver highest quality care with ethics, integrity, honesty, and compassion.
4. Exhibit appropriate personal and interpersonal professional behaviors.
5. Understand the professional, legal, and ethical codes to which physicians are bound.

(4) Interpersonal and Communication Skills
1. Listen effectively.
2. Establish therapeutic relationship with patients and families.
3. Write clear consultation notes, progress notes, discharge summaries, and clinic notes.
4. Communicate effectively with allied health care professionals.

(5) Systems-based Practice
3. Utilize resources effectively to balance patient care and learning needs.
4. Allocate finite health care resources wisely.

(6) Practice-Based Learning and Improvement
2. Critically appraise sources of medical information and be aware of resources available.
3. Read around clinical cases.
4. Participate effectively in facilitate learning of patients, teaching house staff/students and other health professionals.

Method of assessment of resident academic performance
1. End of rotation online evaluation
2. Yearly in-service training exam.
3. Bi-annual case log review