Neuroradiology Catheter Angiography Service: Resident Goals and Objectives

Patient Care:
1. Review the medical record and perform a focused history and physical examination in the evaluation of patients in preparation for the performance of a neuroangiogram.
2. Determine whether the performance of neuroangiography is indicated in evaluating the clinical question.
3. Will assist in the performance of neuroangiograms and demonstrate an understanding of femoral artery access, catheter selection and navigation, contrast injection rates and volumes, optimal imaging projections, and post-procedure care.

Medical Knowledge:
1. Demonstrate knowledge of the indications for the performance of a neuroangiogram.
2. Demonstrate knowledge of neurovascular anatomy and pathology of the neurovascular system.
3. Recognize the symptoms of contrast reactions and demonstrate an understanding of their treatment.
4. Demonstrate understanding of the indications for the use of different contrast media.
5. Recognize complications secondary to the performance of neuroangiography and perform or insure the performance of proper therapy.

Interpersonal and Communication Skills
1. Discuss the rationale for standard exams with referring physicians.
2. Present the pertinent history and physical findings to the attending neuroradiologist in a succinct and effective manner.
3. Communicate important information in a timely fashion appropriate to the clinical situation.
4. Dictate a clear and concise report.
5. Communicate effectively to the technologists and nursing staff instructions regarding the performance of the neuroangiogram and patient care.

Professionalism
1. Discuss the need for and the performance of the neuroangiography with the patient and his or her family and obtain informed consent. Effectively answer any questions that arise during this discussion.
2. Evaluate patients, interact with referring clinicians, and perform neuroangiograms in a professional manner.

Practice-Based Learning and Improvement
1. Present selected cases at the weekly neuroradiology follow up conference with a discussion of the pathology of the case.
2. Maintain a procedure log of neuroangiograms performed including complications.
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3. Prepare two standardized teaching file cases for each four week rotation according to the template provided by the neuroradiology section.

Systems-Based Practice
1. Attend the weekly interventional neuroradiology and neurosurgery combined conference with thorough discussions of individual patient management decisions and gain and understanding of which cases are amenable to interventional neuroradiology therapy versus neurosurgical intervention.
2. Attend weekly neuroradiology follow-up conferences where the indications and alternatives for performing neuroangiography are discussed.
3. Review the procedure codes for each patient to ensure that what is being billed correlates with the procedure performed.