

# Endovascular Surgical Neuroradiology (ESN) Service

## Goals and Objectives for Rotating Residents

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### Patient Care

- Review the medical record and perform a focused history and physical examination in the evaluation of patients in preparation for cerebral angiography.
- Determine whether cerebral angiography is indicated in evaluating the clinical question.
- Assist in the performance of cerebral angiography and demonstrate an understanding of vascular access, catheter selection and navigation, contrast injection, optimal imaging projections, and post-procedure care.

### Medical Knowledge

- Demonstrate knowledge of the indications for cerebral angiography.
- Demonstrate knowledge of neurovascular anatomy and pathology.
- Recognize the symptoms of contrast reactions and demonstrate an understanding of their treatment.
- Demonstrate an understanding of the indications for the use of different contrast media.
- Recognize complications of cerebral angiography and learn to implement proper therapy.

### Interpersonal and Communication Skills

- Discuss the rationale for standard exams with referring physicians.
- Present the pertinent history and physical findings to the attending neurointerventionalist in a succinct and effective manner.
- Communicate important information in a timely fashion appropriate to the clinical situation.
- Dictate a clear and concise report.
- Communicate effectively to the technologists and nursing staff instructions regarding the performance of cerebral angiography and patient care.

### Professionalism

- Discuss the need for and the performance of cerebral angiography with the patient and his or her family and obtain informed consent. Effectively answer any questions that arise during this discussion.
- Evaluate patients, interact with referring clinicians, and perform cerebral angiography in a professional manner.
- Maintain confidentiality of personal health information.

### Practice-Based Learning and Improvement

- Present selected cases at the weekly neuroradiology conference with a discussion of the pathology of the case.
- Maintain a procedure log of cerebral angiography performed, including complications.
- Prepare two standardized teaching file cases for each four-week rotation according to the template provided by the neuroradiology section.

### Systems-Based Practice

- Attend the weekly interventional neuroradiology/neurosurgery conference to gain understanding of individual patient management decisions, including the choice of endovascular or open surgical treatments.
- Attend weekly neuroradiology follow-up conferences where the indications and alternatives for performing cerebral angiography are discussed.
- Review procedure codes for each patient to ensure that services billed match services performed.