Neurological Surgery Residency Program
Columbia University Medical Center
Goals and Objectives NS6

Upon completion of the NS6 year, NS residents will be expected to meet the following educational goals and objectives:

**Patient Care**
- Ability to construct a plan of management for the most complex clinical problems in neurosurgery
- Ability to diagnose brain death and advise next of kin of its significance in a caring compassionate manner
- Ability to function as a consultant in both an inpatient and outpatient setting
- Ability to provide supportive and compassionate care to patients and their families

**Demonstrate surgical proficiency in:**
- Surgical planning
- Patient positioning
- Knowledge of specific procedure
- Speed and efficiency
- Knowledge and use of instruments
- Flow of operation
- Intraoperative judgment
- Use of assistants
- Respect for tissue

**Medical Knowledge**
- Demonstrate detailed knowledge of normal and abnormal anatomy and physiology of the nervous system
- Demonstrate detailed knowledge of neurosurgical disease processes
- Demonstrate ability to teach effectively
- Demonstrate ability to instruct residents in neurosurgical patient evaluation, plan implementation and critical care
- Demonstrate ability to manage and lead the patient care conference
- Demonstrate ability to assist program director in overseeing personal, academic and clinical growth and development of junior residents
- Participate actively and lead conferences

**Practice-based Learning and Improvement**
- Provide instruction about neurosurgical problems to more junior residents and clinical clerks
- Instruct junior residents in neurosurgical operative techniques
- Manage and administrate the quality improvement conference for the neurosurgical service
- Develop skills as program builder and an administrator of the neurosurgical service

Department of Neurosurgery
Jeffrey Bruce, MD, Residency Director
Interpersonal and Communication Skills
- Communicate with patients and their families explaining disease processes and treatment options, including benefits and risks, and possible complications in comprehensible terms
- Discuss patient problems in an organized and articulate manner
- Work in cooperative attitude and sensitive manner with other health care personnel
- Give and receive advice in an objective, mature manner

Professionalism
- Demonstrate knowledge of the ethical and legal aspects of neurosurgery
- Be honest, reliable, and respectful in working with patients and colleagues
- Demonstrate sensitivity to the sexual, ethnic, cultural and religious characteristics of patients and family
- Respect each patient's right to privacy

Systems-based Practice
- Direct a team of healthcare professionals managing patients with complex neurosurgical problems
- Understand legal issues in neurosurgery
- Understand medical economics, politics, practice types
- Practice cost effective medicine
- Incorporate evidence based approaches