

Neurological Surgery: Clinical Research

NS 600.RS

General Information

COURSE CHAIR: Chirag Patil, MD

CONTACT: groupneuroscienceseducation@cshs.org

STUDENTS / PERIOD: max 2

DURATION: 4 to 6 weeks

Please contact the student coordinator as this elective is offered by arrangement.

Requirement(s)

USMLE Step 1 Score
Personal Statement

Description

The Department of Neurosurgery has various programs offering clinical research opportunities to eligible and qualified US medical students. The student will be responsible for conducting literature searches and review, formulating the research question, collecting and interpreting data, statistical analysis and assist in the preparation of abstracts, manuscripts and presentations.

They will be conducting neurosurgery clinical research, outcomes, comparative effectiveness research and the individual project will depend upon what we figure out taking into account their interest.

Students will be required to attend lab meetings. If time permits, the students will have the opportunity to shadow the respective investigator in the outpatient clinic and operating room.

Course Objectives

1. Learn how to conduct a scientific literature review
2. Critically analyze published articles
3. Create and manage a clinical research database
4. Understand the role of several statistical comparison tests in clinical research
5. Learn how to perform basic SAS operations
6. Critically analyze and interpret results
7. Proper drafting of manuscript

Student Experiences

COMMON PROBLEMS/DISEASES

- Glioblastoma biology/genomics
- Immunotherapy in glioblastoma
- Endovascular disease
- Spinal disorders
- Pediatric neurosurgery