

NEUROLOGICAL SURGERY

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The goal of the Department of Neurological Surgery is to acquaint the undergraduate medical student with the problems, both diagnostic and therapeutic, in the field of neurological surgery. This is accomplished by close affiliation with and participation in the neurosciences core curriculum of the freshman and sophomore years. Lectures, conferences and ward rounds are included in this teaching program. In the third year neurosurgical teaching program, the Department curriculum emphasizes the surgical aspects of cerebral and spinal disease and problems. Third year students are made aware of problems best handled by neurosurgical techniques during their trauma and emergency surgery rotation. Fourth year students seeking further study of neurosurgical techniques may elect programs in clinical neurological surgery and neuroscience research. Detroit Receiving Hospital, Harper University Hospital, Sinai-Grace Hospital, and Children's Hospital of Michigan are the primary clinical facilities for undergraduate instruction by this department.

A seven-year residency training program, (includes one year of research in the laboratory or an enrolled clinical fellowship) in neurological surgery is conducted by the Department and based at the following University-affiliated hospitals: Detroit Receiving, Harper University, Sinai-Grace, and Children's. The research interests of the department are concentrated primarily in the neurological mechanisms involved in ischemic stroke, brain tumors, stereotactic and computer-assisted surgery, neuro-oncology, skull base surgery, aneurysms and AVM clinical studies, traumatic brain injury, and hydrocephalus. The Department of Neurological Surgery operates a microsurgical laboratory for residents and participates in ongoing research projects requiring training in microsurgical techniques and microsurgical anatomy. The residents also participate actively in tumor research at Karmanos Cancer Institute.

AL-HOLOU, WAJD: M.D., University of Michigan; Assistant Professor

CASEY, KENNETH: M.D., New Jersey Medical School; B.S., Georgetown University; Clinical Associate Professor

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