

**In the Name of God**  
**Tehran University of Medical Sciences (TUMS)**  
**Department of Neurosurgery**

**Skull base surgery**  
17  
**Non-degree observational course**

**Introduction:**

Treating skull base disorders, including deformities, congenital disorders, tumors and vascular lesions requires skills, expertise, and experience. Lesions of the skull base present a unique challenge to neurosurgeons. Special training is required to perform intricate surgery in the small recesses of the brain. Most skull base neurosurgical approaches require dexterity with surgical instrumentations, specifically bone removal instruments, through restricted corridors that contain vital structures. This aspect of surgery demands that surgeons be proficient not only with the tools but also with the complex anatomy to be negotiated. The development of a sense of the anatomic relationships between neural and vascular structures encased by bone is critical and requires practice.

Tehran University of medical sciences is prepared for training neurosurgeons in this course. This course aims to introduce proper treatment and prevent the consequences of high expenditures imposed on healthcare system by taking advantage of the latest findings in the world.

**Definition and Duration of the training Program:**

This course includes the diagnosis, treatment and management of patients with skull-base tumors, deformities and vascular lesions using the latest techniques and technologies, including:

- Microsurgery

- Endoscopic Surgery
- Neuronavigation
- Stereotaxy

The duration of this course is 3 months.

## Aims

At the end of this three month the participants could expect to be involved in main operations like:

- Transsphenoidal resection of tumour/cyst
- Expanded endonasal approach (meningioma/chordoma/etc)
- Vestibular schwannoma
- Anterior circulation aneurysm clipping
- Skull base meningioma/tumour
- Microvascular decompression
- Foramen magnum decompression

## Assessment Methods:

The applicants will be assessed using portfolio during the course, including:

- Logbook
- The results of all clinical assessments done by faculty

## Periods of Assessment:

- Continuous logbook assessment (preferably day to day)

<b>Title</b>	<b>Description</b>
<b>Name of the course</b>	Skull base Neurosurgery
<b>Educational, degrees or working experience requirements for participants</b>	Post-graduate Neurosurgeons, Neurosurgery residents at 4th or 5th year of education
<b>Language requirement for participants</b>	English/Persian
<b>Venue</b>	Sina, Shariati and Imam Khomeini Hospitals
<b>Summary and introduction of the course</b>	3 month course of skull base neurosurgical education and research
<b>Degree or non-degree</b>	Non-degree
<b>Observational or hands-on</b>	Observational
<b>Time of course (duration and commencement)</b>	3 month Commencement will be determined based on the applicant's and department agreement
<b>Department</b>	Tehran University of Medical Sciences (TUMS), Department of neurosurgery
<b>Tuition fees</b>	1,000 USD (scholarship can be offered to specific applicants depending on their qualifications)