

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

Spine surgery
Non-degree observational course

Introduction

Treating spinal disorders, including deformities, congenital disorders, tumors and spinal fractures, disc disorders with spinal instability, spinal canal stenosis, and severe spondylolisthesis requires skills, expertise, and experience.

Tehran University of medical sciences is prepared for training fellowships 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 :

Spinal Surgery fellowship is a joint training program between Orthopedics and Neuro surgery for treatment and rehabilitation of patients with spinal lesions including: Spinal traumas, pediatrics and adults spinal diseases and malformations, metabolic and degenerative diseases, tumors, infections, congenital lesions and disc diseases.

Also interventions for resumption of spinal health in general population will be designed.

The duration of this course is 3-6 months. (Depending on the competencies of the applicant)

Commencement will be determined based on the applicant's and department agreement

Aims:

To train knowledgeable, competent, efficient, effective, and liable spine surgeons.

Expected Competencies and Procedural Skills:

General competencies and experience requirement:

Being graduated as neurosurgeon or orthopedic surgeon

Procedural Skills:

(Diagnostic-therapeutic procedures):

Skill
Performing surgical procedures on neural elements, such as nerve release, closure of membrane defects covering the spinal cord, spinal and neural decompression
Performing surgeries on intervertebral discs, anterior or posterior Discectomy, and microscopic discectomy
Performing surgeries on bone tissues, such as different types of laminectomy, vertebrectomy, removal of osteophytes, correction of defects
Performing surgeries for stabilizing and correcting the curvature of the spine, such as installation of spinal stabilization equipment through anterior, lateral, or posterior approaches and recognition and treatment of coronal and sagittal balance problems
Performing surgeries for removing spinal tumors using intraoperative neuromonitoring

Educational Strategies, Methods and Techniques

Experience requirement: Graduated as neurosurgeon or orthopedic surgeon

Course: Non-degree, observational

Required languages: English or Persian

Venue: Department of Neurosurgery, Shariati Hospital, Imam Khomeini Hospital, Sina Hospital, Tehran, Iran

Tuition fee: 1,000 USD (scholarship can be offered to specific applicants depending on their qualifications)

Assessment Methods:

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

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

Periods of Assessment:

- Continuous logbook assessment (preferably day to day)