

**NEUROSURGERY TRAINING PROGRAM
(2 WEEKS)
YEDİTEPE UNIVERSITY HOSPITAL**

Head of the Department of Neurosurgery: **M. Gazi Yaşargil, MD Prof.
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CLERKSHIP	NEUROSURGERY <i>Aim of this clerkship is to;</i>
AIM	1. convey necessary knowledge on common neurosurgical diseases including pathology, symptomatology and clinical findings of neurosurgical diseases required to organize early treatment and referral of patients to appropriate center upon indication
<i>At the end of this term, student should be able to:</i>	
KNOWLEDGE	1. recognize general clinical presentation in neurosurgical patients.
	2. recognize neurosurgical emergencies (<i>head and spinal trauma, intracerebral hemorrhage and peripheral nerve injuries</i>)
	3.1 recognize intracranial hypertension and brain herniation syndromes 3.2 recognize skull base fractures and cerebrospinal fluid fistulas.
	1. recognize clinical findings in common brain tumors to refer patients to appropriate centers.
	2. describe spinal trauma and spinal cord injury in early period and transfer of patient to appropriate center based on knowledge of immobilization status.
	3. recognize non-traumatic neck, dorsal and low back pain
	4. describe differential diagnosis of metastatic spinal tumors and primary spinal tumors with other spinal disorders.
	5. define peripheral nerve compression syndromes and nerve injuries
	6. describe hydrocephalus, craniosynostosis and spinal dysraphism.
	7. Recognize infections meningitis, brain abscess, tuberculosis, brucellosis
8. describe management of plelegic patients to prevent bedsores, encourage mobilization and hygiene.	
SKILLS	12.1 do patient history taking 12.2. make neurological examination in neurosurgical patients.
	13.1 perform resuscitation, intravenous catheter placement, wound cleaning and closure in neurosurgical emergencies.
	13.2 make immobilization, apply corset in spinal trauma and knows how to transfer patient in penetrating head trauma to start early emergent treatment
	14. plan initial treatment of increased intracranial pressure.
	15. do initial treatment of neurogenic, spinal and hemorrhagic shock.
	16. do wound cleaning in meningomyelocele for protection of sac.
	17.1. make advices for protective precautions in degenerative spinal diseases
	18. be aware of importance of early treatment in neurosurgical emergencies and referral of patients to appropriate center when necessary
19. take protective precautions in neurosurgical patients in addition to referral	
ATTITUDES	
COMPETENCIES	20.1. start emergency and early treatment in neurosurgical emergencies
	20.2. organize referral of patients.

ASSESSMENT TABLE

This table shows question types and assessment methods/tools used in training program.

Questions Types (Pencil-Paper Tests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	60%
Extended Matching Questions	20%
Key Features	20%
Total	100 %
Other Assessment Methods and Tools	Proportion (in Other Assessments Methods and Tools)
Oral Exam (OE)	80%
Evaluation of Case Presentation	10%
Evaluation of Student's Seminar	10%
Total	100 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	60%
Other Assessments Methods and Tools	40%
Total	100 %

Week 1

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00- 09.50	Grand Round	Grand Round	Grand Round	Grand Round	Grand Round
10.00- 10.50	Lecture Introduction to Neurosurgery Neurological Examination 1 Ahmet Hilmi Kaya	Lecture Functional Neurosurgery 1 Ahmet Hilmi Kaya	Lecture Pediatric Neurosurgery and Hydrocephalus 1 Volkan Harput	Lecture Vascular Neurosurgery 1 Uğur Türe	Lecture Intracranial Tumors 1 M. Gazi Yaşargil
11.00- 11.50	Lecture Introduction to Neurosurgery Neurological Examination 2 Ahmet Hilmi Kaya	Lecture Functional Neurosurgery 2 Ahmet Hilmi Kaya	Lecture Pediatric Neurosurgery and Hydrocephalus 2 Volkan Harput	Lecture Vascular Neurosurgery 2 Uğur Türe	Lecture Intracranial Tumors 2 M. Gazi Yaşargil
12.00- 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00- 13.50	Clinical Experience (Outpatient) Uğur Türe	Clinical Experience (Outpatient) Ahmet Hilmi Kaya	Clinical Experience (Outpatient) Uğur Türe	Clinical Experience (Outpatient) Kaan Yaltrık	Clinical Experience (Outpatient) Ahmet Hilmi Kaya
14.00- 14.50					
15.00- 15.50					
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00-17.50					

Week 2

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00- 09.50	Grand Round	Grand Round	Grand Round	Grand Round	Assessment Session
10.00- 10.50	Lecture Spinal Trauma and Spinal Cord Injury Kaan Yalçın	Lecture Spinal Neurosurgery 1 Ahmet Hilmi Kaya	Lecture Peripheral Neurosurgery Kaan Yalçın	Clinical Experience (Outpatient) Volkan Harput	
11.00- 11.50	Head Trauma Kaan Yalçın	Lecture Spinal Neurosurgery 2 Ahmet Hilmi Kaya	Lecture Peripheral Neurosurgery Kaan Yalçın	Clinical Experience (Outpatient) Volkan Harput	
12.00- 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00- 13.50	Student Seminar Volkan Harput	Student Seminar Kaan Yalçın	Student Seminar Kaan Yalçın	Independent Learning	Program Evaluation Session Review of the Exam Questions Evaluation of the Program Kaan Yalçın Volkan Harput Ahmet Hilmi Kaya Uğur Türe
14.00- 14.50					
15.00- 15.50					
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning		
17.00-17.50	Independent Learning	Independent Learning	Independent Learning		