



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Neurosurgery	
Module type	<i>Obligatory</i>
Faculty PMU	<i>Faculty of Medicine and Dentistry</i>
Major	<i>Dentistry</i>
Level of study	<i>long-cycle (S2J)</i>
Mode of study	<i>full-time studies</i>
Year of studies, semester	<i>Year 4th, semester 7th</i>
ECTS credits (incl. semester breakdown)	<i>1</i>
Type/s of training	<i>lectures (5h) / classes (5h)</i>
Form of assessment*	<input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	<i>prof. dr hab. n. med. Leszek Sagan</i>
Tutor responsible for the module	<i>dr n. med. Bartosz Limanówka</i> <i>bartosz.limanowka@pum.edu.pl</i>
Department's/ Clinic's/ Unit's website	<i>https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/Klinika-Neurochirurgii-i-Neurochirurgii-Dzieciecej</i>
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		1. To recognize symptoms and causes of intracranial hypertension and its consequences. 2. To get acquainted with medical issues in the diagnosis and therapeutic methods in neurosurgical diseases, incl.: craniocerebral trauma, cerebral edema, hydrocephalus, vascular diseases, central nervous system tumors, degenerative spine disease. 3. To acquire skills in evaluating condition of unconscious patient.
Prerequisite /essential requirements	Knowledge	1. Basic knowledge of neuroanatomy and neurophysiology. 2. Knowledge of neurological diseases.
	Skills	1. Practical skills in neurological examination.
	Competences	1. Ability to deal adequately with an inpatient.

Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	knows principles of procedure in case of multi-organ injury	K_E.W04	ET
W02	knows life-threatening states	K_E.W18	ET
W03	knows when to refer patient to hospital	K_E.W20	ET
U01	identifies correct and pathological structures and organs in additional imaging examination (X-ray, USG, computer tomography)	K_E.U05	O
U02	identifies life-threatening risk	K_E.U08	O
U03	recognizes symptoms of brain injury and cerebrovascular disease, dementia and consciousness disturbances	K_E.U10	ET
U04	diagnoses headaches, facial pains and neurological diseases in adults and children that are problematic in dental practice	K_E.U11	O

Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	knows principles of procedure in case of multi-organ injury	X			X			
W02	knows life-threatening states	X			X			
W03	knows when to refer patient to hospital	X			X			
U01	identifies correct and pathological structures and organs in additional imaging examination (X-ray, USG, computer tomography)				X			
U02	identifies life-threatening risk	X			X			
U03	recognizes symptoms of brain injury and cerebrovascular disease, dementia and consciousness disturbances	X			X			
U04	diagnoses headaches, facial pains and neurological diseases in adults and children that	X			X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Lectures			
TK01	Lecture 1: Intracranial hypertension. Unconscious patient evaluation.	2	W02, W03, U02
TK02	Lecture 2: Trigeminal neuralgia. Craniocerebral trauma. Vascular defects of central nervous system.	3	W01, W02, W03, U02, U03, U04
Practical classes			
TK01	Clinical class 1: Psychical examination of unconscious patients and affected by craniocerebral trauma, subarachnoid haemorrhage and spine degeneration.	2	W01, W02, W03, U01, U02, U03, U04
TK02	Clinical class 2: B Psychical examination of unconscious patients and affected by neoplastic tumors of central nervous system. Craniotomy show in the operating room.	3	W02, W03, U01, U02, U03, U04

Booklist
Obligatory literature:
1. Greenberg M.S. (ed.): Handbook of neurosurgery. Thieme Medical Publishers, 2016.
Supplementary literature:
2. Winn H.R. (ed.): Youmans Neurological Surgery. Elsevier, 2016.

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	10
Time spent on preparation to seminars/ practical classess	5
Time spent on reading recommended literature	10
Time spent on writing report/making project	0
Time spent on preparing to colloquium/ entry test	0
Time spent on preparing to exam	5
Other	0
Student's workload in total	30
ECTS credits for the subject (in total)	1
Remarks	

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...