



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2018/2019

### General Information

Module title	Neurosurgery
Module type	Obligatory
Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine and Dentistry
Major	not applicable
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	4 <sup>th</sup> year, 1 <sup>st</sup> semester
ECTS credits (incl. semester breakdown)	1
Type/s of training	lectures (5h) / practical (5h)
Form of assessment	- graded assessment
Head of the Department/ Clinic, Unit	dr hab. n. med. prof. PUM Leszek Sagan
Tutor responsible for the module	dr n. med. Bartosz Limanówka blimanowka@gmail.com
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/Klinika-Neurochirurgii-i-Neurochirurgii-Dzieciecej">https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/Klinika-Neurochirurgii-i-Neurochirurgii-Dzieciecej</a>
Language	Polish/English

### Detailed information

<b>Module objectives</b>		<ol style="list-style-type: none"> <li>1. To recognize symptoms and causes of intracranial hypertension and its consequences.</li> <li>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.</li> <li>3. To acquire skills in evaluating condition of unconscious patient.</li> <li>4. Knowledge of central nervous system diseases that may mask dental pathologies.</li> </ol>
Prerequisite /essential requirements	Knowledge	<ol style="list-style-type: none"> <li>1. Basic knowledge of neuroanatomy and neurophysiology.</li> <li>2. Knowledge of neurological diseases.</li> </ol>
	Skills	<ol style="list-style-type: none"> <li>1. Practical skills in neurological examination.</li> </ol>
	Competences	<ol style="list-style-type: none"> <li>1. Ability to deal adequately with an inpatient.</li> </ol>

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) ZEK	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 of the subject/module in relation to the form of classes								
No.	SYMBOL (referring the standards) ZEK	Type/s of training						
		Lecture	Seminar	Practical classes	Clinical classes	...	...	Other...
1.	K_E.W04	X			X			
2.	K_E.W18	X			X			
3.	K_E.W20	X			X			
4.	K_E.U05				X			
5.	K_E.U08	X			X			
6.	K_E.U10	X			X			
7.	K_E.U11	X			X			

Module contents no.	Description of teaching programme	No. of hours	References to learning outcomes
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
TK03	Clinical class 1: Physical examination of unconscious patients and affected by craniocerebral trauma, subarachnoid haemorrhage and spine degeneration.	2	W01, W02, W03, U01, U02, U03, U04
TK04	Clinical class 2: B Physical 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

<b>Booklist</b>
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 (balance sheet of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
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...