

Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Neurosurgery		
Module type	Obligatory	
Faculty PMU	Faculty of Medicine and Dentistry	
Major	Dentistry	
Level of study	long-cycle (S2J)	
Mode of study	full-time studies	
r of studies, semester Year 4 th , semester 7th		
ECTS credits (incl. semester breakdown)	1	
Type/s of training	lectures (5h) /seminars (5h) / classes (3h)	
Form of assessment*		
Head of the Department/ Clinic, Unit	prof. dr hab. n. med. Leszek Sagan	
Tutor responsible for the module	dr n. med. Bartosz Limanówka bartosz.limanowka@pum.edu.pl	
Department's/ Clinic's/ Unit's website:		
https://www.pum.edu.pl/studia_iii_stopnia/informa	acje_z_jednostek/wmis/katedra_neurochirurgii/	
Language	English	

 $^{^*}$ replace \square into \boxtimes where applicable

Detailed information

Module objectives		 To recognize symptoms and causes of intracranial hypertension and its consequences. 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. To acquire skills in evaluating condition of unconscious patient. 		
Prerequisite /essential	Knowledge	 Basic knowledge of neuroanatomy and neurophysiology. Knowledge of neurological diseases. 		
requirements	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 and understants principles of management in multi-organ injuries	E.W4.	ET		
W02	knows and understands life-threatening states	E.W18.	ET		
W03	knows and understands cases in which the patient should be referred to the hospital	E.W20.	ET		
U01	is able to identify normal and pathological structures and organs in additional imaging examination (X-ray, USG, computer tomography)	E.U5.	О		
U02	is able to identify life-threatening risk	E.U8.	О		
U03	is able to recognize symptoms of brain injury and cerebrovascular disease, dementia and consciousness disturbances	E.U10.	ET		
U04	is able to diagnose headaches, facial pains and neurological diseases in adults and children that posing problems in dental practice	E.U11.	О		
K01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences	K.1.	О		
K02	is ready to be guided by the patient wellbeing	K.2.	О		
K03	is ready to respect physician-patient privilege and patient's rights	K.3.	О		

Table presenting LEARNING OUTCOMES in relation to the form of classes								
			Type of training					
No. of learning outcome	Learning outcomes	Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other
W01	knows and understants principles of management in multi-organ injuries	X			X			
W02	knows and understands life-threatening states	X			X			
W03	knows and understands cases in which the patient should be referred to the hospital	X			X			
U01	is able to identify normal and pathological structures and organs in additional imaging examination (X-ray, USG, computer tomography)				X			
U02	is able to identify life-threatening risk	X			X			
U03	is able to recognize symptoms of brain injury and cerebrovascular disease, dementia and consciousness disturbances	X			X			
U04	is able to diagnose headaches, facial pains and neurological diseases in adults and children that posing problems in dental practice	X			X			
K01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences				X			
K02	is ready to be guided by the patient wellbeing				X			
K03	is ready to respect physician-patient privilege and patient's rights				X			

Table presenting TEACHING PROGRAMME					
No. of a teaching programme	Teaching programme	No. o	learning		
Winter semester					
Lectures					
TK01	Lecture 1: Intracranial hypertension. Unconscious patient evaluation.	1	W01, W02, W03, U01, U02, U03		
TK02	Lecture 2: Spine diseases	1	W03, U01		
TK03	Lecture 3: Intracranial hemorrhages	1	W01, W02, W03, U01, U02, U03		
TK04	Lecture 4: Head trauma	1	W01, W02, W03, U01, U02, U03		
TK05	Lecture 5: Head trauma in children	1	W01, W02, W03, U01, U02, U03		
Seminars					
TK01	Seminar 1: Tumors of the central nervous system	1	W02, W03, U01, U02		
TK02	Seminar 2: Intracranial vascular malformations	1	W02, W03, U01, U02, U03		

TK03	Seminar 3: Surgical treatment of intracranial hematomas	1	W01, W02, W03, U01, U02, U03			
TK04	Seminar 4: Trigeminal neuralgia	2	W03, U01, U04			
	Practical classes					
TK01	Clinical class 1: Psychical examination of unconscious patients and affected by craniocerebral trauma, subarachnoid haemorrhage and spine degeneration.	1	W01, W02, W03, U01, U02, U03, U04, K01, K02, K03			
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.	2	W02, W03, U01, U02, U03, U04, K01, K02, K03			

Booklist

Obligatory literature:

1. Greenberg M.S. (ed.): Handbook of neurosurgery. Thieme Medical Publishers, 2019.

Supplementary literature:

2. Winn H.R. (ed.): Youmans Neurological Surgery. Elsevier, 2016.

Student's workload			
Form of student's activity	Student's workload [h]		
(in-class participation; activeness, produce a report, etc.)	Tutor		
Contact hours with the tutor	13		
Time spent on preparation to seminars/ practical classes	5		
Time spent on reading recommended literature	10		
Time spent on writing report/making project	0		
Time spent on preparing to colloqium/ entry test	0		
Time spent on preparing to exam	5		
Other	0		
Student's workload in total	33		
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 – colloqim

R - report

S – practical skills assessment

RZČ – 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 – multimedia presentation

other...