



Syllabus for academic year: 2021/2022 Training cycle: 2017/2018 – 2022/2023													
Description of the course													
Course	Neurosurgery							Group of detailed education results					
								Group code	Group name				
								F	INTERVENTIONAL CLINICAL SCIENCES				
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	X uniform magister studies 1 st degree studies 2 nd degree studies 3 rd degree studies postgraduate studies												
Form of studies	X full-time part-time												
Year of studies	5th						Semester:	winter X summer					
Type of course	X obligatory limited choice free choice / optional												
Language of study	Polish X English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
Department of Neurosurgery													
Direct (contact) education ¹													
Distance learning ²													
Summer semester:													
Department of Neurosurgery													

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



Direct (contact) education					16								
Distance learning	19												
TOTAL per year:													
Department of Neurosurgery													
Direct (contact) education					16								
Distance learning	19												
Educational objectives													
<p>C1. Providing the student with knowledge of the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of childhood, including in particular: 1) acute and chronic diseases of the abdominal cavity, 2) chest diseases, 3) limb and head diseases, 4) bone fractures and organ injuries;</p> <p>C2. Providing the student with knowledge of the principles of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, the principles of their performance and the most common complications;</p> <p>C3. Providing the student with knowledge in the field of currently used imaging tests, in particular: 1) radiological symptomatology of basic diseases, 2) instrumental methods and imaging techniques used to perform medical procedures, 3) indications, contraindications and preparation of the patient for specific types of imaging tests and contraindications for the use of contrast agents;</p> <p>C4. Providing the student with knowledge of the causes, symptoms, principles of diagnosis and therapeutic management in the case of the most common diseases of the central nervous system in the field of: 1) cerebral edema and its consequences, with particular emphasis on emergencies, 2) other forms of intracranial tightness with their consequences, 3) craniocerebral injuries, 4) vascular defects of the central nervous system, 5) neoplastic tumors of the central nervous system, 6) diseases of the spine and spinal cord;</p> <p>C5. Acquiring the ability to examine an unconscious patient in accordance with the applicable international point scales and to recognize the symptoms of increasing intracranial pressure;</p> <p>C6. Development social competences needed to practice the medical profession, in accordance with graduate's profile.</p>													
Education result for course in relation to verification methods of the intended education result and the type of class:													
Number of detailed education result	Student who completes the course knows/is able to				Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>							
F.W1.	In terms of knowledge the graduate knows and understands the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases requiring surgical intervention, taking into account the specificity of child's age, including in particular: acute and chronic abdominal diseases, thoracic diseases, diseases of the limbs and head, bone fractures and organ injuries;				MCQ test	L / CC							
F.W3.	In terms of knowledge the graduate knows and understands the principles of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, the principles of their performance and the most frequent complications;				MCQ test	L / CC							



F.W10.	In terms of knowledge the graduate knows and understands the issues surrounding the use of contemporary imaging examinations, in particular: the radiological symptomatology of the principal diseases, the instrumental methods and imaging techniques used to perform medical procedures, the indications, contraindications and preparation of the patient for particular types of imaging examination and contraindications to the use of contrast agents;	MCQ test	L / CC
F.W13.	In terms of knowledge the graduate knows and understands the cause,s symptoms, principles of diagnosis and therapeutic management of the most common diseases of the central nervous system in terms of: cerebral oedema and its sequelae, with particular reference to emergencies, other forms of intracranial constriction with their consequences, craniocerebral trauma, vascular defects of the central nervous system, tumours of the central nervous system, diseases of the spine and spinal cord;	MCQ test	L / CC
F.W15.	In terms of knowledge the graduate knows and understands the principles for suspicion and diagnosis of brain death;	MCQ test	CC
F.U21.	In terms of skills the graduate is able to assess the condition of an unconscious patient according to international rating scales;	Task performing	CC
F.U22.	In terms of skills the graduate is able to recognise the symptoms of increasing intracranial pressure;	Task performing	CC
E.U38.	In terms of skills the graduate is able to maintain patient medical records.	Task performing	CC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

Student's amount of work (balance of ECTS points):

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	16
2. Number of hours of distance learning:	19
3. Number of hours of student's own work:	8
4. Number of hours of directed self-study	n/a
Total student's workload	43
ECTS points for course	1,5

Content of classes:

Lectures

1. Introduction and history of neurosurgery. Intracranial hypertension.
2. Craniocerebral injuries.
3. Vascular diseases of the brain and spinal cord.
4. Brain tumors of the spinal cord. Hydrocephalus.



5. Injuries of the spine and spinal cord. Osteoarthritis of the spine.

Classes

1. Treatment methods used in cerebral edema and intracranial hypertension. Hydrocephalus treatment methods.
2. Treatment methods used in cerebral trauma.
3. Treatment methods used in vascular diseases of the brain and spinal cord.
4. Treatment methods used in tumors of the brain and spinal cord.
5. Treatment methods used in injuries of the spine and spinal cord. Treatment methods used in osteoarthritis of the spine.

Basic literature

1. Neurology and Neurosurgery Illustrated. 5th Edition. Authors: Kenneth Lindsay Ian Bone Geraint Fuller. Churchill Livingstone. 2010
2. Handbook of Neurosurgery. Mark S. Greenberg. Georg Thieme. 2019, wyd.9

Preliminary conditions: (minimum requirements to be met by the student before starting the course)

Conditions to receive credit for the course: Test MCQ

Grade:	Criteria for courses ending with a grade ³ Test MCQ
Very Good (5.0)	96-100% correct answers
Good Above (4.5)	91-95% correct answers
Good (4.0)	81-90% correct answers
Satisfactory Plus (3.5)	71-80% correct answers
Satisfactory (3.0)	61-70% correct answers
	Grading takes place in direct contact with the teacher

³ The verification must cover all education results, which are realized in all forms of classes within the course



Department in charge of the course:	Department of Neurosurgery
Department address:	Uniwersytecki Szpital Kliniczny 50-556 Wrocław ul. Borowska 213
Telephone:	+48 71 734 34 00
E-Mail:	pawel.tabakow@umed.wroc.pl

Person in charge for the course:	Paweł Tabakow, MD, PhD, Professor
Telephone:	+48 71 734 34 00
E-Mail:	pawel.tabakow@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Paweł Tabakow	MD, PhD Professor	Medical sciences	doctor	L / CC
Artur Weiser	MD, PhD	Medical sciences	Doctor	CC
Rafał Załuski	MD, PhD	Medical sciences	Doctor	CC
Wojciech Zub	MD, PhD Professor	Medical sciences	Doctor	CC
Konrad Kubicki	MD	Medical sciences	Doctor	CC
Tristan Baliński	MD	Medical sciences	Doctor	CC
Katarzyna Smarzewska	MD	Medical sciences	Doctor	CC
Krzysztof Chmielak	MD	Medical sciences	Doctor	CC
Wojciech Fortuna	MD, PhD	Medical sciences	doctor	CC

Date of Syllabus development

2021-06-29

Syllabus developed by

Dr n. med. Artur Weiser

Uniw. Med. Wrocławiu
KATEDRA I KLINIKA NEUROCHIRURGII
dr Artur Weiser

Paweł Tabakow

Kierownik Katedry i Kliniki Neurochirurgii
Dean's signature Uniwersytetu Medycznego we Wrocławiu

Signature of Head(s) of teaching unit(s)

dr hab. n. med. Paweł Tabakow
profesor uczelni

Wrocław Medical University
Faculty of Medicine
Vice-Dean for English Studies
prof. Beata Szczęsnańska, PhD