Course description

Part 2

Other useful information about the course	
12. Department of Neurosurgery Medical University of Silesia, Plac Medyków 1, 41-200 Sosnowiec, Poland e-mail: sekr_nch@wss5.pl	
13. Name of the course coordinator: Dr hab. n. med. Krzysztof Majchrzak	
14. Prerequisites for knowledge, skills and other competencies: Basic and extended knowledge required regarding anatomy, physiology and pathophysiology of nervous system and connected systems is necessary. Basic knowledge required regarding examination of patients, ability to move around the operating theater, surgical hand washing, qualification and patient preparation for surgical treatment is necessary. Teamwork skills, regularity, organization. Proper attitude to patients.	

15. Number of students in groups	In accordance with the Senate Resolution
16. Study materials	Lab coats Surgical gloves (provided)
17. Location of classes	1. Szpital Wojewódzki nr 5 im. Św. Barbary w Sosnowcu Plac Medyków 1; 41-200 Sosnowiec 2. Uniwersyteckie Centrum Kliniczne 40-752 Katowice, ul. Medyków 14 im. prof. K. Gibińskiego SUM 3. SPSK Nr 6 SUM Górnośląskie Centrum Zdrowia Dziecka im. Jana Pawła II 40-752 Katowice, ul. Medyków 16
18. Location and time for contact hours	Department of Neurosurgery Szpital Wojewódzki nr 5 im. Św Barbary w Sosnowcu Plac Medyków 1; 41-200 Sosnowiec Monday 8:00 am.

19. Learning outcomes

Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01	Student knows principles of qualification and performing of basic surgical and invasive diagnostic and therapeutic procedures and	K1_W03 K1_W04

	knows most common complications of mentioned procedures	
P_W02	Student knows principles of safety and periperative preparation, anesthesia (general, local) and sedation	K1_W05
P_W03	Student knows indications for intensive therapy and principles of intensive therapy	K1_W06
P_W04	Student knows principles of current imaging modalities, including: radiologic symptomatology of most common diseases; instrumental methods and imaging techniques used in therapeutic purposes; indications, contraindications and preparation of patients to different methods of imaging studies; contraindications to use of radiologic contrast media	K1_W10
P_W05	Student knows causes, symptoms, principles of diagnosis and therapeutic procedure in the most common central nervous system diseases: brain edema and its consequences; other forms of intracranial high pressure with their consequences; craniocerebral trauma; vascular lesions of the central nervous system; tumors of the central nervous system; diseases of the spine and spinal cord	K1_W13
P_W06	Student knows principles of suspecting and diagnosing brain death	K1_W15
P_U01	Student takes medical history from the patient	K1_E.U1
P_U02	Student performs complete and targeted physical examination of the patient	K1_E.U3
P_U03	Student assesses the general condition, consciousness and awareness of the patient	K1_E.U7
P_U04	Student assesses and describes the somatic and mental patients` state	K1_E.U13
P_U05	Student recognizes the direct life-threatening states	K1_E.U14
P_U06	Student assists to a typical surgical procedure, preparation of operative field and local anesthesia of operated area	K1_F.U1
P_U07	Student uses basic surgical instruments	K1_F.U2
P_U08	Student implements methods of asepsis and antisepsis	K1_F.U3
P_U09	Student dressing a simple wound according to asepsis and antisepsis principles	K1_F.U4
P_U10	Student assesses the condition of the unconscious patient according to international scales	K1_F.U21
P_U11	Student recognizes the symptoms of increasing intracranial pressure	K1_F.U22
P_K01	Student respects the medical confidentiality and patient rights	K1_K1
P_K02	Student can establish and maintain a deep and respectful contact with the patient	K1_K2
P_K03	Student directs the good of the patient, putting it in first place	K1_K3
P_K04	Student is aware of own limitations and has the ability to lifelong learning	K1_K4

20. Forms and topics of classes	**Number of hours**
21.1. Lectures	
1. Diagnosis and management of intracranial and spinal tumor – the signs and symptoms of intracranial or spinal tumor; diagnostic possibilities; treatment options.	**4**
2. Diagnosis and management of intracerebral aneurysm/AVM - the signs and symptoms of ruptured and un-ruptured aneurysm/AVM, diagnostic possibilities; treatment options.	**3**
3. Diagnosis and management of cerebro-cranial trauma – the signs and symptoms of emergency cases, time management,	**3**
23.3. Labs	
1. The signs and symptoms of intracranial or spinal tumor. Define cerebral perfusion pressure, symptoms and management.	**6**
2. Distinguish and define the signs and symptoms of ruptured and un-ruptured aneurysm. Indications for treatment, various treatment options. Presentation cases.	**5**
3. The signs and symptoms of cranio-facial trauma. Radiological findings. Presentation cases.	**4**
4. General management of disc herniation, instability, and low back pain. Modern surgical techniques, minimally invasive surgery v. classical approaches.	**3**
5. Functional neurosurgery. Pain Problems, Movement Disorders, and Epilepsy	**2**

24. Readings

1. Handbook of Neurosurgery M.S. Greenberg Thieme 2019
2. Neurosurgery Fundamentals N. Agarwal Thieme 2018
3. Vascular Neurosurgery. In Multiple-Choice Questions Hoz, Samer 2017
4. Rhoton's Cranial Anatomy and Surgical Approaches A.Rhoton Jr. Oxford University Press 2019

25. Detail evaluation criteria

In accordance with the recommendations of the inspection bodies
Completion of the course – student has achieved the assumed learning outcomes
Detail criteria for completion and evaluation of the course are specified in the course regulations