



48SJO-PBL14
2025
ECTS: 2.00

Course syllabus – part A

Problem Based Learning 1/4

SUBJECT MATTER CONTENT:

Lecture

Introduction to subject: holistic profile of work with patient, principles of professionalism in medical career, communication with patients.

Classes

Holistic profile of work with patient. Principles of professionalism in medical career (professional secret, proper appearance and attitude). Basic of appropriate communication with patients.

Clinical problems of patients with spina bifida (elements of anatomy, embryology, orthopedics). Clinical problems of patients with dysfunction of CNS (elements of neuroanatomy, neurology, rehabilitation). Clinical problems of patients after muscle-skeletal system trauma (elements of anatomy, orthopedics, rehabilitation). Back pain (spine anatomy).

Nervous system development.

Musculoskeletal system development.

Limb development.

The pharyngeal organ and its derivatives in the face and neck.

Formation of sense organs and body coverings.

Congenital defects, prenatal diagnosis.

Arterial blood supply to the brain. a) Anatomy of the cerebral arterial circle (Willis). b) The extent of cerebral blood supply from individual cerebral arteries. c) Anatomical basis of neurological diseases causing damage to the cerebral cortex. d) Cerebral ischemia, symptoms, clinical consequences. e) Assessment of the efficiency of the cerebral arterial circle.

Brain stem damage. a) Levels of damage and clinical syndromes associated with the damage.

Clinical anatomy of cranial nerves. a) Damage to cranial nerves. b) Clinical consequences of damage to individual cranial nerves.

Clinical cases related to neuroanatomy.

TEACHING OBJECTIVE:

Introduction to the doctor-patient relationship.

The student should familiarize himself/herself with the rules of a clinical ward. They are developing communication skills within the group and in contact with a patient. To educate the student with the holistic nature of doctor-patient work and the principles of the medical profession. The student should learn about the clinical problems of a child with spina bifida, central nervous system disorder, discopathy (including spinal anatomy) and after-motor organ injuries.

In the field of clinical neuroanatomy with the anatomical basis of neurology, the student learns selected neurological issues strictly based on already

Legal acts specifying learning outcomes:

467/2024 (Medicine),

Status of the course: None

Group of courses:None

Discipline: Medicine

Classes:

Lecture (2 h)

Classes (26 h)

Step: Kierunek lekarski pierwszy rok (oferta w jęz. angielskim dla obcokrajowców)

Program: Medicine

Form of studies:full-time

Level of studies: uniform master's studies

Introductory subject: Anatomy, biology, embryology, ethics, professionalism, anatomy of the central nervous system

Prerequisites: Anatomy, biology, embryology, ethics, professionalism, anatomy of the central nervous system

Coordinators:

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acquired anatomical and histological knowledge. The student is provided with information regarding the connection between basic sciences and clinical sciences in the field of diseases of the central nervous system. The student obtains theoretical foundations along with the practical ability to combine basic knowledge with clinical practice. Selected neurological issues are presented in terms of basic knowledge that can be used, for example, in a neurological examination.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

M/NMA_P7S_KO+++++, M/NMA_P7S_UW+++++, M/NMA_P7S_WG+++++

Symbols for outcomes related to the field of study:

K.1.+, K.2.+, K.3.+, K.4.+, K.5+, A.U3.+, D.U3.+, D.U1.+, D.U11.+, D.U4.+, D.W7.+, D.W6.+, D.W15.+, B.W19.+, E.W15.+, E.W28.+

LEARNING OUTCOMES (Knowledge, Skills, Social competence):

<u>W1</u>	(D.W7) Knows and understands the specificity and role of verbal communication (conscious construction of messages) and non-verbal communication (e.g. facial expressions, gestures, management of silence and space)
<u>W2</u>	(D.W6.) Knows and understands the concept of empathy and the phrases and behaviors used to express it
<u>W3</u>	(D.W15.) Knows and understands the concept of humanism in medicine and the main concepts, theories and ethical principles serving as a general framework for the proper interpretation and analysis of moral and medical issues
<u>W4</u>	(B.W19.) Knows and understands the basics of excitation and conduction in the nervous system and higher nervous activities, as well as the physiology of striated and smooth muscles
<u>W5</u>	(E.W15.) Knows and understands the basic sets of neurological symptoms
<u>W6</u>	(E.W28.) Knows and understands the concept of disability
<u>U1</u>	(A.U3) Is able to explain the anatomical basis of physical examination
<u>U2</u>	D.U3. Is able to respect the patient's rights
<u>U3</u>	(D.U1.) Is able to follow ethical patterns in professional activities, including planning and carrying out a therapeutic process by ethical values and the idea of humanism in medicine
<u>U4</u>	(D.U11.) Is able to adapt the method of verbal communication to the patient's needs, understandably expressing himself and avoiding medical jargon
<u>U5</u>	(D.U4.) Can demonstrate responsibility for improving their qualifications and transferring knowledge to others
<u>K1</u>	Is prepared to establish and maintain deep and respect-based contact with the patient, and demonstrate an understanding of differences in world views and cultures;
<u>K2</u>	Student's decisions are guided by the well-being of the patient

K3	Obeys the medical confidentiality rule and respects patient rights
K4	Is ready to take action towards the patient based on ethical principles, being aware of the social conditions and limitations resulting from the disease
K5	Is ready to notice and recognize his limitations and to self-assess his educational deficits and needs

TEACHING FORMS AND METHODS:

Lecture-['K1', 'K2', 'K3', 'K4', 'K5', 'U1', 'U2', 'U3', 'U4', 'U5', 'W1', 'W2', 'W3', 'W4', 'W5', 'W6']-Introduction to subject. Discussion.
Classes-['K1', 'K2', 'K3', 'K4', 'K5', 'U1', 'U2', 'U3', 'U4', 'U5', 'W1', 'W2', 'W3', 'W4', 'W5', 'W6']-Discussion.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture-(Part in the discussion)-['K1', 'K2', 'K3', 'K4', 'K5', 'U1', 'U2', 'U3', 'U4', 'U5', 'W1', 'W2', 'W3', 'W4', 'W5', 'W6']-Presence and part in the discussion.
Classes-(Part in the discussion)-['K1', 'K2', 'K3', 'K4', 'K5', 'U1', 'U2', 'U3', 'U4', 'U5', 'W1', 'W2', 'W3', 'W4', 'W5', 'W6']-Continuous assessment, assessment of discussion of the classes, and assessment of the self-study. The tutor evaluates an engagement and student's preparation for the meeting according to a scoring system: 1 - sufficient, 2 - good, 3 - very good (in the Department of Rehabilitation and Orthopedics). Exercises in the field of selected issues in clinical neuroanatomy with the anatomical foundations of neurology are assessed based on commitment to the conducted discussions, active participation in classes and present.

Literature:

1. *Lessons from Problem-Based Learning*, Berkel von Henk, Scherpbier A., Hillen H, Vleuten van der Cees, Oxford University Press, 2010, Strony: , Tom: (literatura podstawowa)
2. *The role of the tutor in a problem based learning curriculum*, Grave de Willem, Moust J., Hommes J., Department of Educational Development Research, Maastricht, 2010, Strony: , Tom: (literatura podstawowa)
3. *Polish Annals of Medicine*, , Collegium Medicum University Warmia and Mazury in Olsztyn, 2021,2022,2023,2024, Strony: -, Tom: (literatura podstawowa)



Detailed description of ECTS credits awarded - part B
Problem Based Learning 1/4

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2025

ECTS: 2.00

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Lecture	2 h
- participation in: Classes	26 h
- consultation	2 h
Total:	30 h

2. Independent work of a student:

Preparation for classes	20.00 h
Total:	20.00 h

Total (contact hours + independent work of a student): 50.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS,
ECTS Points = 50.00 h : 25 h/ECTS = **2.00** ECTS

Average: 2.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher	1.20 ECTS
- including the number of ECTS credits for hours of independent work of a student	0.80 ECTS