



**48SJO-PBL14**  
**ECTS: 2.00**  
**CYCLE: 2023**

## 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. 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. 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).

#### TEACHING OBJECTIVE

Student powinien rozumieć holistyczny charakter pracy lekarza z pacjentem oraz podstawowe zasady profesjonalizmu zawodu lekarza. Student rozwija zdolności komunikacji w grupie i z pacjentem. Student powinien nabyć wiedzę o wybranych zagadnieniach neurologicznych, ściśle opartych na przyswojonych już wiadomościach anatomicznych i histologicznych w zakresie neuroanatomii klinicznej z anatomicznymi podstawami neurologii. Studentowi zostają przekazane wiadomości dotyczące powiązania nauk podstawowych z naukami klinicznymi z zakresu schorzeń ośrodkowego układu nerwowego. Wybrane zagadnienia neurologiczne są przedstawione pod kątem wiedzy podstawowej, która może być zastosowana np. w przedmiotowym badaniu neurologicznym. Student powinien nabyć wiedzę z zakresu problemów klinicznych chorych z przepukliną oponowo-rdzeniową, po urazach narządu ruchu oraz dyskopatii (elementy embriologii, ortopedii, rehabilitacji, anatomii, w tym anatomii kręgosłupa).

#### 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

**Legal acts specifying learning outcomes:**  
3112022

**Disciplines:** medical sciences

**Status of the**

**course:**Obligatoryjny

**Group of courses:**B -

przedmioty kierunkowe

**Code:** ISCED 0912

**Field of study:**Medicine

**Scope of**

**education:**Medicine

**Profile of education:**

General academic

**Form of studies:** full-time

**Level of studies:** uniform

master's studies

**Year/semester:** /1

**Types of classes:** Lecture,  
Classes

**Number of hours in**

**semester:**Lecture: 2.00,

Classes: 18.00

**Language of**

**instruction:**English

**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

**Name of the organisational  
unit conducting the**

**course:**Katedra Rehabilitacji i  
Ortopedii

**Person responsible for the  
realization of the**

**course:**prof. dr hab. n. med.  
Ireneusz Kowalski

**e-mail:** rehab@uwm.edu.pl

**Additional remarks:**

# **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\_WG+++ , M/NMA\_P7S\_KR++

## **Symbols for outcomes related to the field of study:**

K.3.+ , KA7\_WG13+ , B.W20.+ , E.W13.+ ,  
D.W5.+ , B.W25.+ , D.U4.+ , D.W6.+ ,  
KA7\_WG14+ , D.W18.+ , D.U16.+ , E.W30.+ ,  
K.2.+ , KA7\_KR2+ , K.5.+ , D.W16.+ , D.U5.+ ,  
K.1.+ , KA7\_KR1+ , D.U15.+ , A.U3.+

## **LEARNING OUTCOMES:**

### **Knowledge:**

W1 - (D.W6.) Knows and understands the significance of verbal and non-verbal communication in the process of communicating with the patient, and the notion of trust in interaction with the patient;

W2 - (D.W5.) Knows and understands the principles and methods of communicating with the patient and his/her family, conducive to empathic, and trust-based relationships;

W3 - (D.W18.) Knows and understands the rules of teamwork;

W4 - (E.W13) Knows and understands the basic constellations of neurological symptoms;

W5 - (B.W20) Knows and understands the basis of nervous system stimulation and conduction, including higher-level nervous activity, as well as the physiology of striated and smooth muscles plus blood functions;

W6 - (B.W25) Knows and understands the relationship between factors disturbing the balance of the biological processes, and physiological and pathophysiological changes;

W7 - (D.W16) Knows and understands the main notions, theory, and ethical rules forming the general framework of proper interpretation and analysis of moral and medical issues;

W8 - (E.W30) Knows and understands the notions of disability and invalidity;

W9 - (KA7\_WG13) Knows the basics of interdisciplinary management and treatment of patients, especially those with disorders neurological and orthopedic problems.

W10 - (KA7\_WG14) Knows the principles of academic, social and professional professionalism

### **Skills:**

U1 - (D.U4.) Can build an atmosphere of trust over the whole diagnostic and therapeutic process;

U2 - (D.U5.) Can talk to the adult patient, the child, and the family employing the technique of active listening and expressing empathy, and discuss his/her life situation with the patient;

U3 - (D.U15.) Can respect the patient's rights;

U4 - (D.U16) Can take responsibility for furthering own qualifications and sharing knowledge with others;

U5 - (A.U3) Can explain the anatomical grounds of physical examination;

### **Social competence:**

K1 - 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;

K2 - Is prepared for the good of the patient

K3 - Is prepared to abide by medical secrecy and respect the patient's rights;

K4 - Is prepared to perceive and recognise own limitations, and assess his/her deficits and educational needs;

K5 - Is prepared to observe and apply the principles of academic and professional ethics as well as professional image and professionalism

academic, social and professional;

K6 - Is prepared to inspire, be a leader and cooperate in an interdisciplinary team, especially during PBL classes (Problem Based Learning);

### **TEACHING FORMS AND METHODS:**

Lecture(W1;W2;W3;W4;W5;W6;W7;W8;W9;W10;U1;U2;U3;U4;U5;K1;K2;K3;K4;K5;K6;):Introduction to subject. Discussion.

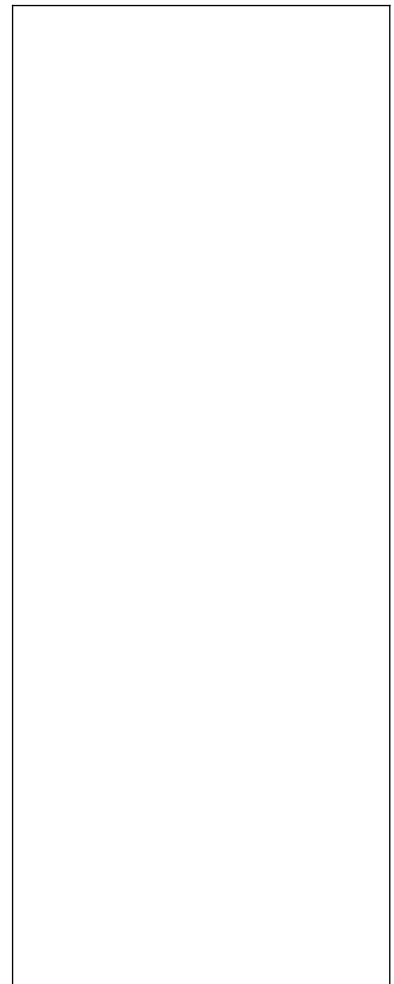
Classes(W1;W2;W3;W4;W5;W6;W7;W8;W9;W10;U1;U2;U3;U4;U5;K1;K2;K3;K4;K5;K6;):Discussion.

### **FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

Lecture (Part in the discussion) - Presence and part in the discussion. -  
Classes (Part in the discussion) - 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. -

### **BASIC LITERATURE:**

### **SUPPLEMENTARY LITERATURE:**



## Detailed description of ECTS credits awarded - part B

**48SJO-PBL14**

**ECTS: 2.00**

**CYCLE: 2023**

### Problem Based Learning 1/4

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

|                             |                |
|-----------------------------|----------------|
| - participation in: Lecture | 2.0 h          |
| - participation in: Classes | 18.0 h         |
| - consultation              | 2.0            |
|                             | Total: 22.0 h. |

2. Independent work of a student:

|                         |         |
|-------------------------|---------|
| Preparation for classes | 28.00 h |
|-------------------------|---------|

Total: 28.0 h

contact hours + independent work of a student Total: 50.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 50.0 h : 25.0 h/ECTS  
= 2.00 ECTS on average: 2.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: