

48SJO-PBL24 2025 ECTS: 1.00

# Course sylabus - part A Problem Based Learning 2/4

#### **SUBJECT MATTER CONTENT:**

#### Classes

Clinical, ultrasound anatomy of head and neck, thoracic, abdominal, and pelvic structures. Physical examination: inspection of the chest and abdomen, palpation of the chest and abdomen, percussion and auscultation of the chest and abdomen. Anatomical basis of ultrasound examination of head and neck, abdominal, pelvic structures. Proper selection of a probe for a given examination. Preparation and positioning of the patient for ultrasound examination. Basic selected concepts used in ultrasonography hyperechoicity, isoechogenicity, hypoechogenicity. Structure of the ultrasound machine, types of ultrasound transducers, frequency of the transducer. Application of ultrasonography in medicine-types of examinations. Application of ultrasonography in diagnosis of head and neck, visualization, ultrasonographic anatomy and evaluation of structures: thyroid gland, vessels of the neck (neurovascular bundle), lymph nodes of the neck, soft tissues, muscles, salivary glands. Clinical division of lymph nodes of the neck. Application of ultrasonography In the diagnosis of organs of the trunk visualization, ultrasound anatomy and evaluation of structures and organs including: lungs and pleural cavities, liver, gallbladder, biliary tract, pancreas, spleen, large vessels of the abdominal cavity and organs of the urinary system and pelvic organs. Individual work, interpretation and understanding of ultrasound images. Introduction to patient communication and standardized patient and simulated - assessment of professionalism, social competence and student-patient relationship.

### **TEACHING OBJECTIVE:**

To learn and understand the clinical interpretations of the issues of ultrasonographic anatomy, the interrelationship between the structure and function of the various organs of the head and neck, as well as the abdominal and pelvic cavities, taking into account the fundamentals of ultrasonography. Basic concepts in ultrasonography, fundamentals and principles of ultrasonographic examination including clinical and topographic anatomy of the structures of the head and neck, chest, abdominal and pelvic cavity and anatomy of superficial structures and interpretation of ultrasound images.

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:

Legal acts specifying learning outcomes:

467/2024 (Medicine), Status of the course: None Group of courses:None Discipline: Medicine Classes:

Classes (12 h)

**Step**: Kierunek lekarski drugi rok (oferta w jęz.

angielskim dla obcokrajowców)

Program: Medicine

Form of studies:full-time

Level of studies: uniform master's studies

**Introductory subject:** biology, basic anatomy, basic physiology

**Prerequisites:** Basic knowledge of human biology, anatomy, and physiology.

#### Coordinators:

Karina Borszczewska-Chechłowska, karina.borszczewska@uwm.edu.pl

## 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.5+, K.7.+, K.8.+, K.6.+, A.U3.+, A.U4.+, E.U15.+, A.W1.+, B.W7.+

## **LEARNING OUTCOMES (Knowledge, Skills, Social competence):**

<u>W1</u>	The Graduate knows and understands: A.W1. the structure of
	the human body in a topographical and functional approach,
	including the topographical relationships between individual
	organs, along with anatomical, histological, and embryological
	, , ,

terminology;

W2 The Graduate knows and understands: B.W7. physical basics of

noninvasive methods of imaging;

<u>U1</u> The Graduate is able to: A.U3. to clarify anatomical basics of

the medical examination;

<u>U2</u> The Graduate is able to: A.U4. make conclusions about relations

between anatomical structures on the basis of diagnostic tests,

in particular from the scope of radiology;

<u>U3</u> The Graduate is able to: E.U15. apply personal protective

measures appropriate to the clinical situation;

<u>K1</u> The Graduate is prepared to: K.5. perceive and recognizing

one's own limitations and self-assessing educational deficits and

needs

**K2** The Graduate is prepared to: K.7. use of objective sources of

information

<u>K3</u> The Graduate is prepared to: K.8. formulate conclusions from

their own measurements or observations

**K4** The graduate is ready to: K.6. promote healthy behaviors

## **TEACHING FORMS AND METHODS:**

Classes-['W1', 'U1', 'K1', 'K2', 'U2', 'W2', 'U3', 'K3', 'K4']-Multimedia presentations (Power Point). Practical exercises, where the student practices the basics of physical examination and ultrasound, and assesses and finds structures in the field of surface anatomy and palpation

## FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Classes-(Colloquium practical)-['K1', 'U1', 'W1', 'K2', 'U2', 'W2', 'K3', 'U3', 'K4']-OSPE-type practical pass - the pass condition is obtaining more than 60% correct answers and a true / false test- the pass threshold is 60%.

#### Literature:

1. *Color Atlas of ultrasound anatomy*, Berthold Block, Thieme, 2022, Strony: , Tom: (literatura podstawowa)



# 48SJO-PBL24 2025

**ECTS: 1.00** 

# Detailed description of ECTS credits awarded - part B Problem Based Learning 2/4

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Classes 12 h
- consultation 2 h
Total: 14 h

2. Independent work of a student:

student's own work 11.00 h

Total: 11.00 h

Total (contact hours + independent work of a student): 25.00 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS,

ECTS Points = 25.00 h : 25 h/ECTS = **1.00** ECTS

Average: 1.00 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher

- including the number of ECTS credits for hours of independent work of a student 0.44 ECTS