



48SJ-CSL45

ECTS: 1

YEAR: 2023L

CLINICAL SKILLS LABS 4

CLINICAL SKILLS LABS 4

COURSE CONTENT CLASSES

Performing the correct 12-lead ECG recording. Interpreting the correct and uncorrect ECG recording. Ischemia and myocardial infarction in ECG recording. Cardiac arrhythmias (life-threatening bradyarrhythmias, ventricular and supraventricular tachyarrhythmias). Ultrasound anatomy of the organs and structures of the neck, abdomen and pelvis – review. Information reminder about preparation and positioning of the patient for US examination as well as types of ultrasound heads, transducer frequency and proper selection of the probe for the US examination. Normal values and norms in US examination of the structures and organs during neck, abdomen and pelvis examination. Types and methods of examinations in the neck (thyroid and salivary glands, vessels and lymphatic nodes) the most common pathologies and their differential diagnosis. US Doppler examination of the neck vessels. FAST and emergency US – how to do it. US technics for abdominal and pelvic organs examination (liver, gallbladder, bile ducts, pancreas, spleen, intestine, kidney, urinary bladder, prostate and uterus). Abdominal vessels and retroperitoneal space US examination. Application of US examination in medicine the most common US signs and pathologies during examination and interpretation of the US images. Individual work of the student with the patient – assessment of professionalism, social competences and student-patient relationship. Basic principals and techniques of fine needle biopsy – presentation and student's individual work during biopsy.

LECTURES

-

EDUCATIONAL OBJECTIVE:

Upon completion of this module, the student should be able to: 1. understands clinical interpretations of the US anatomy and the most common pathology during US examination; 2. Understands the sonographic interrelationships between the structure of the organs of the head and neck, abdomen and pelvis taking into account the basics of ultrasound examination. The student should acquired and developed the basics and principles of ultrasound examination, taking into account topographic anatomy of the organs and structures of the neck, chest, abdomen and pelvis and interpret the ultrasound images. The student knows the basic symptoms and US signs and principles of differentiation of selected pathologies in US examination. The student can independently perform an US examination and visualize and assess structures and organs of the neck, abdomen and pelvis as well as interpret the most common pathologies. The student can also work in a group uses acquired skills and the available literature. The student is able to establish respectful contact with the patient, observing the principles of septic and antiseptic rules and the principles of professional behavior. The student knows the basic and principles and techniques of fine needle biopsy under US guidance, is able to perform a biopsy of the lesion under US image control. The student knows and improves the methods of recording and interpreting the ECG test, performs 12-lead ECG, is able to recognize and correctly interpret cardiac arrhythmias in emergencies, he recognizes the type and location of ischemic changes in the myocardium and selected ECG pathologies.

DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES

Codes of learning outcomes in a major field of study: M/NM+++ , M/NMA_P7S_UW+, M/NMA_P7S_WG+++,

Codes of learning outcomes in a major area of study: B.W8.+ , E.U29.+ , E.W7.+ , F.W10.+ , K.5+ , K.6.+ , K.7.+ , K.8.+ , KA7_UW5+ , KA7_WG1+ , KA7_WG14+ , KA7_WG3+ ,

LEARNING OUTCOMES:

Knowledge

- W1 - E.W7.
- W2 - KA7_WG1
- W3 - KA7_WG3
- W4 - F.W10.
- W5 - KA7_WG14
- W6 - B.W8.

Skills

- U1 - E.U29.
- U2 - KA7_UW5

Social competence

- K1 - K.5, K.6 , K.7, K.8

BASIC LITERATURE

- 1) Berthold Block, Color Atlas of ultrasound anatomy, wyd. Thieme, 2011 ; 2) Steven M. Penny, Pocket Anatomy & Protocols for Abdominal Ultrasound, wyd. Wolters Kluwer Health, 2019 ; 3) Berthold Block, Abdominal Ultrasound: Step by Step. , wyd. Thieme, 2015 ; 4) John Christian Fox, Atlas for emergency ultrasound, wyd. Cambridge University Press, 2011

SUPPLEMENTARY LITERATURE

Course/module:	Clinical Skills Labs 4
Fields of education:	
Course status:	facultative
Course group:	B - przedmioty kierunkowe
ECTS code:	
Field of study:	Medicine
Specialty area:	Medicine
Educational profile:	General academic
Form of study:	full-time
Level of study:	uniform master's studies
Year/semester:	4 / 8

Type of course:	Classes, Laboratory classes
Number of hours per semester/week:	Classes: 21, Laboratory classes: 9

Teaching forms and methods	Classes(K1, U1, U2, W1, W2, W3, W4, W5, W6) : Practical skills: performing and interpretation of 12-lead ECG. , Laboratory classes(K1, U1, U2, W1, W2, W3, W4, W5, W6) : Practical exercises: the student recognizes and visualizes the organs of the neck, abdomen and pelvis during ultrasound examination, interprets images based on individual clinical cases and learns the rules and technique of fine-needle and thick-needle biopsy.
-----------------------------------	---

Form and terms of the verification results:	CLASSES: Colloquium practical - attendance at classes, performing and interpretation of ECG (K1, U1, U2, W1, W2, W3, W4, W5, W6) ; LABORATORY CLASSES: Colloquium test - Final test: test: 20 true / false questions and an OSCE practical test. To pass the course, it is necessary to pass the theoretical and practical parts with a score of not less than 66%. The assessment will be the arithmetic mean of the Ultrasound part and the ECG(null)
--	---

Number of ECTS points:	1
Language of instruction:	English

Introductory courses:	anatomy, physiology, patophysiology, internal medicine, physical examination and history taking basics
------------------------------	--

Preliminary requirements:	knowledge from anatomy, physiology, patophysiology, internal medicine, physical examination and history taking basics
----------------------------------	---

Name of the organizational unit offering the course:	Katedra Radiologii,
---	---------------------

Person in charge of the course:	dr hab. n. med. Anna Żurada,
--	------------------------------

Course coordinators:	
-----------------------------	--

Notes:	
---------------	--

1) John McCafferty, James M Forsyth, Point of Care Ultrasound Made Easy, wyd. CRC Press, 2020 ; 2) Sencha Alexander, Patrunov Yury N. Thyroid , Ultrasound. From Simple to Complex, wyd. Springer, 2019 ; 3) Malcolm S. Thaler, The Only EKG Book You'll Ever Need, wyd. Wolters Kluwer, 2015

Detailed description of the awarded ECTS points - part B

48SJ-CSL45
ECTS: 1
YEAR: 2023L

CLINICAL SKILLS LABS 4 **CLINICAL SKILLS LABS 4**

The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	21 h.
- participation in: laboratory classes	9 h.
- consultation	2 h.
	32 h.

2. Student's independent work:

-	1 h.
-	1 h.
	2 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 34 h : 25 h/ECTS = 1,36 ECTS
on average: **1 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	1,28 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	-0,28 ECTS points,