



Katedra i Zakład Fizjologii

Course Name: Human Physiology

Nervous system

Teacher: Joanna Bartkowiak-Wieczorek

1. Prerequisites:

- a. Understanding of neuron and synapse structure.
- b. Knowledge of osmosis, diffusion, passive, and active transport.
- c. Basics of electrical conduction – physics.
- d. Familiarity with topics from the nervous system seminar.
- e. Understanding of reflex arc structure.
- f. Knowledge of the periodic table of elements.

2. Special Requirements: Wearing lab coats is mandatory.

3. Scope of the Seminar:

- a. Examination of cranial nerves.
- b. Examination of tendon reflexes.
- c. Examination of pathological reflexes.
- d. Examination of ascending sensory pathways.
- e. Examination of motor pathways.
- f. Analysis of deliberative reflexes.
- g. Neurological tests during neurological disorders and in the course of neurodegenerative diseases.

4. Literature:

Dee Unglaub Silverthorn, *Human Physiology: An Integrated Approach*, PZWL, 2022 (primary literature).



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5. To pass the topic, students are required to have knowledge from the basics (point 1), presented during theoretical classes, and the content covered in exercises (point 3). Additionally, students must be familiar with the content discussed during the classes.