



**PHYSIOLOGY - SEMINARS (clinical cases scenario), (6,0 h), Fall semester 2023/2024**

No.	Topic	Tutor	Hours
1	<b>Neurophysiology (26.10.2023)</b> 1. The sense of hearing and sense of balance. Cortical and brain stem control of motor function. 2. Contributions of the Cerebellum and Basal Ganglia to Overall Motor control. 3. Thoughts, Consciousness, and Memory. 4. States of Brain Activity – Sleep, Brain Waves, Epilepsy, Psychoses.	E. Lepiarczyk. PhD	2 h
2	<b>Muscles and Autonomic Nervous System, Endocrinology part I (30.11.2023)</b> 1. The mechanisms of synthesis and the regulation of thyroid hormones secretion. The various physiological actions of thyroid hormones. 2. The mechanisms of synthesis, regulation of secretion and the physiological function of PTH. The mechanism of synthesis, regulation of secretion and the physiological function of calcitonin. The role of vitamin D in calcium metabolism. 3. The mechanism of neuromuscular transmission and the end-plate potential generation. The synthesis and degradation of acetylcholine and its role in the neuromuscular transmission. 4. The structure of the adrenal cortex and medulla. Regulation of adrenal cortical hormones secretion. The physiological actions of adrenocortical hormones.	A. Bossowska, Associate Professor	2 h





3	<b>Blood and Immune System (14.12.2023.)</b> 1. Dehydration, maintenance of water balance 2. Iron metabolism 3. Development of cell- mediated immunity 4. Development of humoral immunity	A. Skowrońska Associate Professor	2 h
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**LOOK AT THE CLASSES SCHEDULE**

Guyton and Hall “Medical Physiology” 2020, Elsevier

Linda S. Costanzo Physiology, 2022 Wolters Kluwer Health

Guyton & Hall Physiology Review 2021 Elsevier, Health Sciences Division

Olsztyn, 01.10.2023

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