

Course Title: Physiology integrated with Internal Medicine
Coordinator /contact: Prof. Agata Ptak - Belowska
Address: Chair of Physiology UJ CM
Year: 4-6

Total number of hours: 15
Lectures: -
Seminars: -
Labs/Practicals: -
Others (e.g. recitation): -

Student's Evaluation:
credit requirements: attendance
attendance requirements: all lectures are mandatory; one absence allowed

1st week , on-line

Jan 7th, 2021 (Thursday) 17.15-19.30

Prof. Brzozowski/Assoc. Prof. Kwiecien

Body fluids, transports, electrophysiology, synapses and junctions, skeletal and smooth muscle physiology. Gastrointestinal tract, control of appetite, motility, gastric barrier and defence, secretory functions of salivary gastrointestinal and pancreatic glands, hormonal control of gastric secretion, physiology of gastrin, antiulcer drugs, digestion and absorption, *Helicobacter pylori* infection, intestinal bowel disorders, inflammatory bowel diseases.

2nd week , on-line

Jan 14th, 2021 (Thursday) 17.15-19.30

Prof. Pawlik/Assoc. Prof. Kwiecien

Cardiovascular system, excitation-contraction coupling, the physiologic basis of the electrocardiogram (ECG), determinants of left ventricular performance and cardiac output, preload, afterload, coronary circulation, control of arterial pressure, baroreceptors microvascular functions, local circulatory control, chemoreceptors, vasodilators and vasoconstrictors.

3rd week , on-line

Jan 21th, 2021 (Thursday) 17.15-19.30

Prof. Jaworek/Assoc. Prof. Majka

Nervous system, control of body movements, spinal reflexes, central and peripheral control of voluntary movement, sensation pathways, EEG, consciousness and sleep, physiology of hypothalamus, limbic system, localisation and transmission of pain, higher functions of nervous system, learning and memory.

4th week , on-line

Jan 28th, 2021 (Thursday) 17.15-19.30

Prof. Dembinski/Prof. Brzozowski

Respiratory system, pressure-volume relationships, the work of respiration, ventilation of the lungs, gas transport and exchange, chemoreceptors and the control of respiration, renal blood flow; renal tubular functions, glomerular filtration, hormonal regulation, acid-base balance.

5th week , on-line

March 4th, 2021 (Thursday) 17.15-19.30

Prof. Dembinski/Prof. Agata Ptak-Belowska

Endocrine system, hypothalamic-pituitary-adrenal axis, release and physiological function of growth hormone (GH), antidiuretic hormone (ADH) and oxytocic hormone, thyroid hormones, adrenal medulla hormones, pancreatic hormones insulin and glucagon, male and female reproductive hormones.