English Dentistry Division

- I. Course coordinator: Marcin Ufnal, MD, PhD, e-mail: mufnal@wum.edu.pl
- II. Forms of classes

Lectures (30hrs), seminars (55hrs), exercises (45hrs).

Classes will take place at the Department of Experimental Physiology and Pathophysiology, Pawinskiego 3c.

Subject topics (winter)

- 1. Introduction to physiology. Membrane and action potentials.
- 2. Blood physiology and pathophysiology.
- 3. MCQ I.
- 4. Hemodynamic cycle of the heart. Principles of blood flow in the cardiovascular system.
- 5. Regulation of cardiovascular function. Pathophysiology of arterial hypertension.
- 6. The conducting system of the heart. Electrocardiography.
- 7. Coronary circulation. Ischeamic heart disease. Ischaemic heart disease. Myocardial infarction. Heart failure
- 8. Microcirculation and the lymphatic system. Circulatory Shock.
- 9. MCQ II.
- 10. Physiology of the respiratory system.
- 11. Pathophysiology of the respiratory system.
- 12. Physiology and pathophysiology of the kidneys.
- 13. Regulation of water-electrolyte and acid-base balance.
- 14. Physiology and pathophysiology of the gastrointestinal tract.
- 15. Physiology and pathophysiology of the pancreas and liver.

Obligatory literature:

- 1. Guyton AC, Hall AC. Textbook of Medical Physiology, 12th edition, 2010, W.B. Saunder's Co., Philadelphia.
- 2. McPhee SJ, Hammer GD. Pathophysiology of Disease: An Introduction to Clinical Medicine, 7th edition, 2014, McGraw-Hill.

Supplementary literature:

1. Koeppchen B.M., Stanton B.A. Berne & Levy Physiology, 6th edition, 2009, Mosby Co.