

**Topics and organization of lectures in pathophysiology for the 2nd year of medicine
(summer semester of the academic year 2023/2024)**

1. Pathophysiology in an interdisciplinary approach.
2. The role of the inflammatory process in the pathophysiology of diseases.
3. Pathophysiology of atherosclerosis and ischemic heart disease.
4. Pathophysiology and classification of shock.
5. Etiopathogenesis of arterial hypertension.
6. Insomnia and disturbances of circadian rhythms.
7. Disorders of carbohydrate metabolism.
8. Obesity and metabolic syndrome.
9. Disturbances in the metabolism of minerals and vitamins. Eating disorders.
10. Hematopoiesis. Diseases of the red blood cell system.
11. Diseases of the white blood cell system.
12. Hemostasis. Hemorrhagic diathesis.
13. Thrombophilia.
14. Pathophysiology of the aging process. Neurodegenerative diseases.
15. Cancers. Mechanisms of neoplastic transformation.

Lecture date: Wednesday, 15:30-17:00 (Lecture hall A, 13-15 Jagiellońska Street).