

LABORATORY DIAGNOSTICS

3rd year students – summer semester 2024/2025

The lectures will last from **25th February 2025 to 25th March 2025** and will be held **on-line on Teams platform on Tuesdays at 17.00-18.30**.

Date	Topic of lectures
25.02.2025	The role of laboratory tests in the modern process of diagnosis and treatment of organ and systemic diseases. (1h) The variability of the laboratory result -the assessment of factors. Cooperation between the doctor and diagnostic laboratory. (1h)
04.03.2025	Plasma proteins in the laboratory diagnostics. (1h) Laboratory diagnostics of hypothalamus and pituitary diseases. (1h)
11.03.2025	Laboratory diagnostics of thyroid diseases. (1h) Laboratory diagnostics of heart diseases. (1h)
18.03.2025	Laboratory diagnostics of the secretory function of the gastrointestinal tract. (2h)
25.03.2025	Laboratory diagnostics of tumor diseases - tumor markers. (1h) Laboratory diagnostics of toxicology. (1h)

The practical classes will last from **24th February 2025 to 14th May 2025 (10 weeks)** in the Department of Medical Biochemistry (Chałubińskiego 10, -1 level (laboratory room number 2 and 3).

Date	Topic of laboratory classes
24.02.-26.02.2025	1. Principles of collecting and handling biological material and causes of pre-laboratory and laboratory errors. (3h)
03.03.-05.03.2025	2. Laboratory diagnosis of clinical water-electrolyte and acid-base imbalances. (3h)
10.03.-12.03.2025	3. Laboratory diagnostics of coagulation system and fibrinolysis disorders. (3h)
17.03.-19.03.2025	4. Laboratory diagnostics of calcium metabolism disorders. (3h)
24.03.-26.03.2025	5. Basics of diagnostics of the white and red blood cells. (3h)
31.03.-02.04.2025	6. Laboratory diagnostics of urine, faeces and body fluids. (3h)
07.04.-09.04.2025	7. Laboratory diagnostics of lipid metabolism disorders. (3h)
14.04.-16.04.2025	8. Laboratory diagnostics of adrenal function disorders. (3h)
05.05.-07.05.2025	9. Laboratory diagnostics of liver diseases. (3h)
12.05.-14.05.2025	10. Laboratory diagnostics of selected metabolic disorders: diabetes, insulin resistance, metabolic syndrome. (3h)
19.05.-21.05.2025	Making up laboratories uncredited in summer semester.
	The final test.