



**Faculty of Medicine**

***Department III: Functional Sciences***

**University Department Sub-Structure of Physiopathology**

**Associate Professor, Position 44**

**Topics**

**Lectures**

1. Pathophysiology of the inflammatory reaction.
2. Pathophysiology of the abnormal immune response.
3. Pathophysiology of respiratory diseases.
4. Pathophysiology of the cardiovascular system
5. Pathophysiology of calcium, phosphate and magnesium abnormalities:
6. Pathophysiology of major endocrine disorders.
7. Pathophysiology of circulatory shock
8. Pathophysiology of blood disorders
9. Pathophysiology of the gastrointestinal system
10. Pathophysiology of the renal system
11. Pathophysiology of electrolyte and water imbalances
12. Pathophysiology of acid-base imbalances:
13. Pathophysiology of carbohydrate metabolism impairment
14. Pathophysiology of lipoproteins metabolism impairment
15. Pathophysiology of protein metabolism impairment

**Practical laboratories**

1. Investigation of the inflammatory reaction
2. Investigation of the pathological immune response
3. Investigation of respiratory diseases
4. Investigation of arterial hypertension and peripheral artery disease
5. Pathological ECG
6. Cardiopulmonary exercise testing
7. Evaluation of the body's response to stress.
8. Diagnostic investigation in cardiac failure
9. Investigation of calcium and phosphate metabolism abnormalities
10. Investigation of major endocrine disorders
11. Investigation of blood pathology
12. Investigation of digestive pathology
13. Investigation of renal pathology
14. Investigation of water and electrolyte imbalances
15. Investigation of acid-base disorders
16. Investigation of carbohydrate metabolism abnormalities
17. Investigation of plasma lipid abnormalities
18. Investigation of protein metabolism disorders

**Bibliography**

1. Muntean DM, Borza C, Noveanu L, Aburel OM, Sturza A, Dănilă MD. Fiziopatologie - Note de curs pentru studenții la medicină I. „Victor Babeș” Timișoara, 2022, E-book disponibil pe site-ul UMFVBT
- 2.. Borza C, Muntean DM, Noveanu L, Aburel OM, Sturza A, Dănilă MD. Fiziopatologie - Note de curs pentru studenții la medicină II. , E-book disponibil pe site-ul UMFVBT



3. Protocoalele lucrărilor practice pentru studenții Facultății de Medicină ed. 2023-2024 în format letric disponibile la sediul disciplinei.