

## LESSON № 10

### Topic: DISORDERS OF PROTEIN METABOLISM. GOUT

**Aim of the lesson:** to study disorders of protein metabolism, mechanisms of protein insufficiency and gout development and their complications.

#### QUESTIONS:

1. Biological role of proteins, peptides and amino acids. Consequences of amino acid insufficiency.
2. Starvation. Types of starvation. Metabolic and functional disturbances in starvation.
3. Causes of protein insufficiency. Protein-calorie malnutrition. Particularities in children (Kwashiorkor).
4. Causes and consequences of protein digestion disturbances. Symptoms. Celiac-sprue.
5. Causes and consequences of intermediary amino acid metabolism.
6. Pathology of plasma protein composition. Disproteinemia types and their features.
7. Types of residual plasma nitrogen level increasing. Mechanisms of their development.
8. Gout. Pathogenesis of symptoms.

#### LITERATURE:

1. Lecture material.
2. General and clinical pathophysiology / ed. by A.V. Kubyshkin. – Vinnytsa: Nova Knyha Publishers. – 2011. – P. 281-293.
3. General and systematic pathology / ed. by J. C.E. Underwood. 2<sup>nd</sup> ed. – 1996. – P. 137-142, 144-145, 152-163.
4. Pathology / ed. by E. Rubin and J.L. Farber. 2<sup>nd</sup> ed. – 1994. – P. 327-328.
5. Pathophysiology of disease: an introduction to clinical medicine / ed. by S.J. McPhee, W.F. Ganong. – 2006. – P. 322-325.

