


**Federal State Budgetary Educational Institution of Higher Education
«North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian
Federation**

Department of biological chemistry

Approved
Head of the department,
associate professor

 **A. E. Gurina**

"29" august 2022 year.

Calendar-thematic plan of additional practical classes

Discipline of biological chemistry- biochemistry of the oral cavity

Course 2

Dentistry faculty _____

for the autumn semester 2022-2023 school year

№	Date	The title of the topic	Teacher
1.	09.09.22	Digestion of proteins in the gastrointestinal tract. Common pathways of amino acid catabolism: transamination.	Kaitukova D.I.
2.	16.09.22	Common pathways of amino acid catabolism: deamination, decarboxylation. The exchange of individual amino acids.	Kaitukova D.I.
3.	23.09.22	Ways of accumulation and neutralization of ammonia in the human body.	Kaitukova D.I.
4.	30.09.22	Exchange of nucleotides: purine and pyrimidine.	Kaitukova D.I.
5.	07.10.22	Chromoprotein metabolism: biosynthesis and breakdown of hemoglobin in tissues. Iron exchange.	Kaitukova D.I.
6.	14.10.22	Module for the topic: "Exchange of simple and complex proteins".	Kaitukova D.I.
7.	21.10.22	Introduction to endocrinology. Chemistry of peptide hormones. Secondary messengers. Conducting a hormonal signal. Mechanism of cellular action of protein-peptide hormones, biological role.	Kaitukova D.I.
8.	28.10.22	Steroid hormones: synthesis, mechanism of cellular action, biological role of glucocorticoids, mineralocorticoids, sex hormones.	Kaitukova D.I.
9.	04.11.22	Biochemistry of the kidneys. The process of secondary urine formation. Physico-chemical properties of urine. Organic and inorganic composition of blood.	Kaitukova D.I.
10.	11.11.22	Pathological components of urine. Regulation of water-salt metabolism.	Kaitukova D.I.
11.	18.11.22	Module for the topic: "Hormonal regulation of metabolism. Biochemistry of blood and urine".	Kaitukova D.I.
12.	25.11.22	Biochemistry of non-mineralized connective tissue.	Kaitukova D.I.
13.	02.12.22	Biochemistry of mineralized tissues. Bone remodeling. Regulation of the process. Features of the structure of macromolecules and metabolism of tooth tissues.	Kaitukova D.I.
14.	09.12.22	Inorganic components of saliva and oral fluid	Kaitukova D.I.
15.	16.12.22	The organic composition of saliva: proteins and enzymes. Organic substances of non-protein nature.	Kaitukova D.I.
16.	23.12.22	Protective systems of the oral cavity. Gingival fluid. Plaque and the development of caries. Tartar and inflammation of periodontal tissues.	Kaitukova D.I.

17.	30.12.22	Module for the topic: "Biochemistry of the oral cavity".	Kaitukova D.I.
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Assistant of the department

 Kaitukova D.I.

"29" august 2022 year.