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

"29" august 2022 year.

Rating

<u>Discipline a</u>	<u>of biological</u>	chemistry-	biochemistry	of the	oral	cavity
Course		2	_			
Dentistry f	aculty					

for the autumn semester 2022-2023 school year

№	Date	The title of the topic	Marks	
			theory	practice
1.	07.09.22	Digestion of proteins in the gastrointestinal tract. Common pathways of amino acid catabolism: transamination. Clinical and diagnostic significance of determining the activity of transaminases in blood serum.	5	5
2.	14.09.22	Common pathways of amino acid catabolism: deamination, decarboxylation. The exchange of individual amino acids. Quantitative determination of urea in the blood.	5	5
3.	21.09.22	Ways of accumulation and neutralization of ammonia in the human body. Quantitative determination of urea in the blood.	5	5
4.	28.09.22	Exchange of nucleotides: purine and pyrimidine.	5	5
5.	05.10.22	Chromoprotein metabolism: biosynthesis and breakdown of hemoglobin in tissues. Iron exchange. Metabolic disorders of bile pigments. Jaundice. Violations of heme synthesis. Porphyria. Quantitative determination of direct bilirubin in blood serum.	5	5
6.	12.10.22	Module for the topic: "Exchange of simple and complex proteins".	10	5
7.	19.10.22	Introduction to endocrinology. Chemistry of peptide hormones. Secondary messengers. Conducting a hormonal signal. Mechanism of cellular action of protein-peptide hormones, biological role.	5	5
8.	26.10.22	Steroid hormones: synthesis, mechanism of cellular action, biological role of glucocorticoids, mineralocorticoids, sex hormones.	5	5
9.	02.11.22	Biochemistry of the kidneys. The process of secondary urine formation. Physico-chemical properties of urine. Organic and inorganic composition of blood.	5	5
10.	09.11.22	Pathological components of urine. Regulation of water-salt metabolism.	5	5
11.	16.11.22	Module for the topic: "Hormonal regulation of metabolism. Biochemistry of blood and urine".	10	5
12.	23.11.22	Biochemistry of non-mineralized connective tissue.	5	-

Total				170	
17.	28.12.22	Module for the topic: "Biochemistry of the oral cavity".	10	5	
		development of caries. Tartar and inflammation of periodontal tissues.			
16.	21.12.22	Protective systems of the oral cavity. Gingival fluid. Plaque and the	5	-	
		substances of non-protein nature.			
15.	14.12.22	The organic composition of saliva: proteins and enzymes. Organic	5	5	
14.	07.12.22	Inorganic components of saliva and oral fluid	5	5	
		tooth tissues.			
		process. Features of the structure of macromolecules and metabolism of			
13.	30.11.22	9		-	

Assistant of the department Kaitukova D.I. "29" august 2022 year.