

**The thematic lesson plan of the lecture type
on the discipline "Microbiology, virology –
microbiology of the oral cavity"
for students of the specialty "Dentistry"
for the 2024-2025 academic year**

№	Thematic blocks	Hours (academic)
1.	Introductory lecture. ¹ Medical microbiology and virology: subject, goals, objectives. Systematics and nomenclature of microorganisms. Morphology, ultrastructure and chemical composition of microorganisms. Morphology of microorganisms living in the mouth. ²	2
2.	The physiology of microorganisms. ¹ Nutrition and respiration of bacteria. The main groups of bacteria living in the oral cavity. The growth and reproduction of bacteria. Bacteriological research method. ²	2
3.	Morphology and physiology of viruses. ¹ Classification. Building. Interaction with the cell. Cultivation of virus. ²	2
4.	Fundamentals of sanitary microbiology. ¹ Microflora of water, air, soil. Sanitary-indicative microorganisms of water, air and soil. Determination of the microbial number in dental offices. ²	2
5.	The influence of environmental factors on microorganisms. ¹ The effect of physical, chemical and biological factors. Sterilization and disinfection. Asepsis and antiseptics. The use of sterilization methods in dentistry. ²	2
6.	The normal microflora of the human body, its formation and formation ¹ Formation of microbial associations of plaque. Resident microflora of the oral cavity, the main representatives, their properties. The mechanism of plaque formation, the role of microorganisms. The value of the normal microflora of the oral cavity. ²	2
7.	The doctrine of infection. ¹ Forms of infection and their characteristics. Features of the course of infections of the maxillofacial region. Conditions of infection and pathways of transmission of the pathogen. Pathogenetic factors of bacteria. ²	2
8.	Gram-positive cocci. ¹ Staphylococci and streptococci. Microbiological characteristics. The role of gram-positive cocci in the etiopathogenesis of dental pathology. Laboratory diagnostics, specific prevention and treatment. ²	2
9.	Causative agents of diphtheria and whooping cough. ¹ Microbiological characteristics. Clinical manifestations in the oral cavity. Taking material from the oral cavity. Laboratory diagnostics, specific prevention and treatment. ²	2
10.	General characteristics of pathogens of intestinal infections. ¹ Salmonella. Typhoid fever, paratyphs A and B. ²	2
11.	Pathogens of anaerobic infection. ¹ Importance in dental pathology. Principles of laboratory diagnostics, specific prevention and treatment. ²	2
12.	Respiratory viral infections. ¹ Influenza, parainfluenza, adenoviruses, coronaviruses, herpesviruses. Manifestations in the oral cavity. Microbiological diagnostics. ²	2
13.	Viral hepatitis 1characteristics of pathogens, laboratory diagnostics, specific prevention. The risk of infection during dental procedures. ²	2
14.	HIC. ¹ Characteristics of the pathogen. Clinical manifestations. Microbiological diagnostics. Treatment, prophylaxis. ²	2

	Total	28
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1 – topic of the lecture

2 – essential content of the lesson