

Practical subjects for dentistry students

1. Sterility. Sterilization methods.
2. Sterility tests, pyrogenicity test.
3. Dezinfectants.
4. Native microscopy.
5. Importance of fixation. Simple stainings.
6. Gram staining
7. Ziehl-Neelsen staining.
8. Classification of culture media (with examples).
9. Spreading of bacteria, the importance of spreading. Colony morphology of bacteria (with examples). Hemolysis types.
10. Basic biochemical tests used to identify bacteria (catalase, coagulase, oxidase, sugar metabolism). Hemolysis types.
11. Antibiotic susceptibility tests. Disk diffusion and E-test. The definition of MIC and MBC.
12. Microbiological processing and evaluation of sputum, buccal and nasopharyngeal samples.
13. Microbiological processing and evaluation of samples containing anaerobic bacteria. Anaerobic cultivation.
14. Microbiological diagnosis of infections: the importance of ELISA reaction and virus detection by PCR and qPCR.