PROSPECTS OF USING PHOTOACTIVATED DISINFECTION IN ODONTOLOGY

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**Topicality**. An important area of prevention and treatment of dental caries is antimicrobial therapy. At present, introduced the use of new antimicrobial method based on selective elimination of pathogenic microorganisms, sensitized special preparations and low-intensity laser radiation - photoactivated disinfection.

**The purpose of the study –** tostudy of antibacterial action of photoactivated disinfection by plaque microflora.

**Materials and methods.** In the experiment, we compared the initial level of the colonies grown (data control) and the number of the colonies grown after photoactivated disinfection (0,1% solution etacridine lactate and laser light 445 nm the exposure time 60 and 120 seconds).

**Results of the study.** It was found significant (p <0,05) decrease in number of CFU / ml the total microflora of dental plaque from 6,76 ± 0,62 × 103  to 6,80 ± 0,49 × 10² after exposure time 60 seconds and up to 3,36 ± 0,28 × 10² after exposure time 120 seconds.

**Conclusions.** Thus, the results indicate pronounced antimicrobial effect of photoactivated disinfection, allowing the opportunity to justify the destruction of pathogenic oral microflora is such a method and requires further study.