

The invention relates to dentistry, namely to a method for decontamination and sterilization of endodontic or periodontal space for the treatment of root canals and other dental spaces affected by pathogenic microorganisms.

The method consists in the simultaneous use of two treatment systems: irrigation with 5% chemically stabilized hydrogen peroxide and treatment with a dental diode laser with a wavelength of 803...813 nm. Chemical stabilization is carried out (mM/L) with ethylenediaminetetraacetic acid 0.025, phosphoric acid 0.45...0.50 and ascorbic acid 0.070...0.075 as a buffer system that provides an optimal pH of 4.3...4.5, and in case of decontamination of the periodontal space, hydrogen peroxide is additionally activated with cetylpyridinium chloride with a concentration of 0.02%.

Irrigation is carried out in three stages of 25...30 sec, laser treatment is carried out in a constant CW-2W mode or in a variable Pulse-1.5 W one during the entire period of irrigation with 5% hydrogen peroxide, chemically stabilized, also in three stages, with an interval between stages of 30 sec, after which the laser treatment is continued for 5...8 min. As the laser is preferably used a DENMAT-SOL-type apparatus.

Claims: 6

Fig.: 3