

عنوان مقاله:

THE ANTIMICROBIAL AND CLINICAL EFFECTS OF OZONIZED WATER, CHLORHEXIDINE, AMOXICILLIN - METRONIDAZOLE, ON PORPHYROMONAS GINGIVALIS

محل انتشار:

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نویسندگان:

Mohammad Niakan - Shahed University.Medicine Faculty.Microbiology Department

Zahra Sarabadani - DDS . Shahed University.Dentistry Faculty

Zahra Soltani Kermanshahi - MSc in Microbiology. Azad Islamic University.Science Faculty

Hasan Semyari - Associated professore . Dentistry surgery

خلاصه مقاله:

Background and Aim:Background: Recently ozone as a disinfectant effective in the treatment of periodontal disease has been suggested, this study investigated the in vitro antimicrobial activity Ozonized water, chlorhexidine, amoxicillin, metronidazole and amoxicillin-metronidazole combination on the bacterium Porphyromonas gingivalis (Pg).Methods:Material and Methods: In Vitro study, double-blind by different concentration from ozone- water, chlorhexidine, amoxicillin, metronidazole injection, suspension of metronidazole and amoxicillin-metronidazole combination with ۷ times in the presence of bacteria in a test tube Pg and its antimicrobial effect by the method of MIC using turbidity and MBC and count the number of colonies were determined. Statistical analysis was performed with two way ANOVA and LSD methods.Results:Results: the MIC of ozone- water, chlorhexidine, amoxicillin, metronidazole injection, suspension of metronidazole and amoxicillin-metronidazole combination of respectively ۷.۰, ۳, ۱۹۰, ۳۱۰, ۱۲ ۵۰۰ and ۱۰ micro grams per ml. and MBC respectively ۱, ۷, ۳۹۰, ۳۱۰, ۲۵۰۰ and ۱۰ micro grams per ml, respectively, MIC and MBC were obtained ozone- water, chlorhexidine and amoxicillin-metronidazole combination with significant differences ($P \leq 0.05$).Conclusion:Conclusion: ozone- water strong antimicrobial effect than chlorhexidine, amoxicillin, metronidazole and amoxicillin-metronidazole combination on the bacterium Porphyromonas gingivalis can be used in the treatment of periodontal disease

کلمات کلیدی:

Keywords Porphyromonas gingivalis, Ozone water, Chlorhexidine, Amoxicillin- Metronidazole

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