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Capacity of photodynamic therapy for microbial reduction in periodontal pockets.

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Abstract

Practitioners are not successful in implemented treatments due to the great difficulty in completely removing **bacterial** deposits and their endotoxins. This study aimed to evaluate the capacity of photodynamic **therapy** to reduce the numbers of viable bacteria in **periodontal** pockets. Microbiological samples were collected before and after scaling and after photodynamic **therapy**. Photodynamic **therapy** was performed through the insertion of the photosensitizer toluidine blue and Endo PTC into the pocket for 3 min, followed by photosensitization with low-intensity diode of 4 J/cm(2). The results (log(10)) were submitted to a descriptive analysis and a t-test. A reduction of 81.24% in the numbers of bacteria after scaling was observed, as well as 95.90% after photodynamic **therapy** (P < 0.01). Photodynamic **therapy** is indicated as an adjuvant **treatment** to reduce the numbers of viable bacteria in **periodontal diseases**.

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Publication Types, MeSH Terms, Substances

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