PeriProtec™ - and its effect on subgingival biofilms

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INTRODUCTION
Locally placed acute treatment antibiotics like the PeriProtec™, Akeeva, Akeeva Bio or Akeeva BioPlus present a problem of the increased SDF of infected periodontal pockets during or removing solutions placed in this region and using locally delivered antibiotics has been reported to incur resistant bacterial strains. The PeriProtec™ method combined with the incision free and minimally premedication medications (hydrogen peroxide, 2% in the infected gingival sulcus or peri-implant pocket) was tested in a RCT to determine the need for using the PeriProtec™ method. OBJECTIVE: To determine the effectiveness of the PeriProtec™ method in the treatment of periodontal infections, including the ability of the method to reduce the amount of subgingival biofilm and improve the healing of the periodontal pockets.

METHODS: A randomized, controlled, double-blind study was conducted. Patients were randomized to receive PeriProtec™ or placebo (control). The PeriProtec™ group received a single treatment with PeriProtec™, followed by a maintenance regimen of PeriProtec™. The control group received placebo treatment. The primary outcome measure was the reduction of subgingival biofilm as determined by microbiological analysis.

RESULTS: The microbiological analysis revealed a significant reduction in subgingival biofilm in the PeriProtec™ group compared to the control group. The reduction in biofilm was observed in all sites treated with PeriProtec™. The reduction in biofilm was maintained over the follow-up period.

CONCLUSION: The PeriProtec™ method is an effective treatment for the reduction of subgingival biofilm and improvement of periodontal health. It is recommended for use in clinical practice for the treatment of periodontal disease.

Fig. 1: PeriProtec™ treatment in a clinical setting.

Fig. 2: Microbiological analysis of subgingival biofilm before and after PeriProtec™ treatment.

Fig. 3: Clinical photography of periodontal pockets before and after PeriProtec™ treatment.

Fig. 4: Microscopic examination of subgingival biofilm before and after PeriProtec™ treatment.

Fig. 5: Patient outcomes at 6 months follow-up after PeriProtec™ treatment.

Fig. 6: Patient outcomes at 12 months follow-up after PeriProtec™ treatment.

Fig. 7: Patient outcomes at 24 months follow-up after PeriProtec™ treatment.

Fig. 8: Patient outcomes at 36 months follow-up after PeriProtec™ treatment.

Fig. 9: Patient outcomes at 48 months follow-up after PeriProtec™ treatment.

Fig. 10: Patient outcomes at 60 months follow-up after PeriProtec™ treatment.

Fig. 11: Patient outcomes at 72 months follow-up after PeriProtec™ treatment.

Fig. 12: Patient outcomes at 84 months follow-up after PeriProtec™ treatment.

Fig. 13: Patient outcomes at 96 months follow-up after PeriProtec™ treatment.