

Prof. Dr. Peter Hahner

Pocket-X[®] Gel in non-surgical periodontal treatment

Geistlich

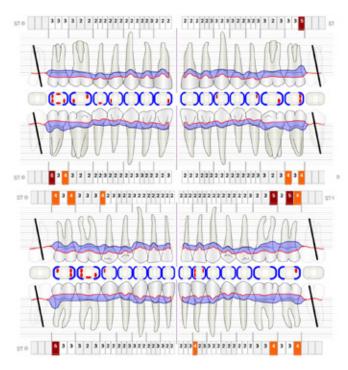
The Situation

An adult female patient (age 37 years, systemically healthy, non-smoker) in supportive periodontal therapy (Step 4 according to EFP guideline, first re-evaluation after active periodontal treatment 4 months before) presented with persistent periodontal pockets 4-6 mm with recurring bleeding on probing in posterior regions. The primary goal was to establish clinical periodontal health and periodontal stability, at the patient's request preferably without means of surgical interventions.

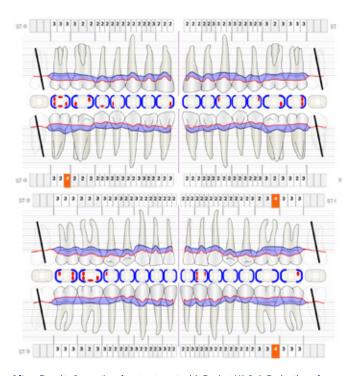
The Approach

As part of regular supportive periodontal therapy, subgingival re-instrumentation of the still inflamed sites was planned. After recording of periodontal parameters, supra- and subgingival biofilm removal was performed using Airflow®/Perioflow® with Erythritol powder, followed by removal of the mineralised deposits using ultrasonic instruments. Pocket-X® Gel was then instilled in all periodontal pockets with probing depths ≥4 mm and bleeding on probing, or probing depths ≥5 mm.

The Periodontal Status



Before: Initial situation. Diagnosis: Periodontitis Stage 3 Grade B. ST = probing depth in mm.



After: Results 3 months after treatment with Pocket-X® Gel: Reduction of probing depth at teeth 17, 27, 37, 36, 32, 45, 47; Reduction of bleeding on probing; Additional diagnosis of clinical periodontal health (closed pockets) at teeth 27, 37, 36, 32, 45, 47.

Prof. Dr. Peter Hahner

- Cologne
- · DMD University Düsseldorf, M.Sc. Periodontics

1989/1992 State examination/Doctorate (Dr. med. dent.),
Düsseldorf University

1990 Military service: Captain in the medical corps

Since 1991 Dentist in private practice, Cologne, specialized on periodontology

2005 M.Sc. (Periodontology), Krems University

2014/2019 Professor of clinical periodontology at praxisHochschule/EU|FH, Cologne

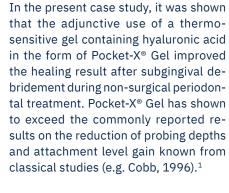


The use of a thermo-sensitive gel containing hyaluronic acid in the composition of Pocket-X® Gel is an enrichment of the therapeutic spectrum in non-surgical periodontal therapy.

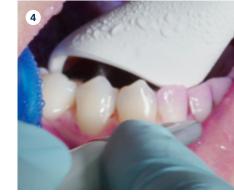
It is quite conceivable that this will further extend the indication limits for minimally invasive non-surgical therapy."







The Outcome



X-ray before treatment

Moderate horizontal bone loss, particularly in the molar regions and at the mandibular anterior teeth. Two-wall interdental bone pockets are suspected on teeth 36-37 and 46-47

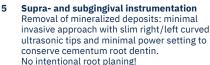


Diagnosis

Probing pocket depth: Appointment started with re-evaluation of periodontal parameters (probing depths, clinical attachment level, bleeding on probing, plaque index).













Results after subgingival instrumentation The gingiva is not damaged thanks to the minimally invasive instrumentation. Starting the application of Pocket-X® Gel.





Filling the pocket completely with the thermogelling Pocket-X® Gel to protect against

Follow-up Probing pocket depth: Re-evaluation 3 months after intervention.















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Keys to success

- → Minimally invasive, atraumatic subgingival instrumentation
- → Thorough biofilm removal
- → Minimal tissue trauma
- → Filling pockets completely with Pocket-X® Gel
- → Instructing the patient on aftercare and compliance



Instruments and materials used

Instruments for biofilm control:

→ Airflow®/Perioflow® with Erythritol powder (Airflow® plus)

Instruments for calculus removal (supra- and subgingival):

- → Piezon® Handpiece with PSL/PSR instruments
- → Optional supplementary at selected sites: Mini-five curettes

Rinsing/Irrigation:

→ No additional irrigation was used

Adjunctive Treatment:

→ Pocket-X® Gel



Product availability may vary from country to country.

Reference

1 Cobb CM: Annals of Periodontology 1996; 1(1): 443–90.