Quick-guide for Emdogain® FL used during initial phase periodontal therapy.
Treatment concept from Prof. Filippo Graziani and Dr. Stefano Gennai, University of Pisa, Italy

Prof. Filippo Graziani DDS, MClinDent, PhD is full professor of periodontology at the University of Pisa (Italy), honorary professor at the University of Hong Kong, and honorary senior lecturer in periodontology at the University College London (UK). Dr. Stefano Gennai DDS, PhD is research fellow at the University of Pisa, Italy.
About Straumann® Emdogain® FL

Straumann® Emdogain® FL leads to true periodontal regeneration based on biomimicry. Emdogain® FL contains enamel matrix derivative – the active natural protein matrix responsible for tooth formation. When applied to cleaned tooth root surfaces the unique protein composition in Emdogain® FL is able to induce the regeneration of all periodontal tissues: cementum, periodontal ligament, alveolar bone and gingiva.

MORE EFFECTIVE
Eliminate more pockets.

MORE EFFICIENT
Achieve results comparable to periodontal flap surgery.

INCREASE PATIENT COMFORT
Render your procedures milder and more tolerable.
INITIAL PHASE PERIODONTAL THERAPY

Modern periodontal treatment concepts include three treatment phases. After diagnosis of periodontal disease, initial phase periodontal therapy starts with non-surgical subgingival instrumentation (scaling and root planing) to remove causative bacteria, plaque and biofilm (phase I). Reevaluation after this first causative treatment will decide on the need for repeated or follow-up treatments like surgery (phase II) or supportive treatments (phase III). Straumann® Emdogain® FL can be seamlessly integrated into the workflow of initial phase therapy for the treatment of pockets with depth of 5–9 mm with a sequence of 5 steps.

It is essential that patients diagnosed with periodontitis are instructed to have appropriate oral hygiene measures, avoid smoking and if possible adopt a healthier lifestyle.
When used as an adjunct to non-surgical initial phase periodontal therapy Emdogain® FL can help to:

- Reduce pocket probing depth
- Gain additional clinical attachment²
- Reduce the need for follow up treatments including surgery by up to 32%

Making periodontal regenerative therapy as easy and convenient as possible.

STRAUMANN® EMDOGAIN® FL CAN HELP TO RENDER INITIAL PHASE PERIODONTAL THERAPY MORE EFFECTIVE¹

<table>
<thead>
<tr>
<th>Benefits of Emdogain® FL as part of non-surgical therapy</th>
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<tbody>
<tr>
<td>Average pocket depth reduction¹</td>
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<td>3.22 mm</td>
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<tr>
<td>Need for follow up treatment including surgery¹</td>
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<td>-32%</td>
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² In pockets deeper ≥6mm
Clinical application of Straumann® Emdogain® FL as part of initial phase periodontal therapy.

This case presentation illustrates the clinical procedure used within Graziani et al. Journal of Clinical Periodontology 2019.

Initial condition, diagnosis
Periodontal charting and X-ray revealed a periodontal pocket/intrabony defect between the upper central incisors at the mesial aspect of the 11 displaying a probing depth of 7 mm and bleeding on probing.

1. Root instrumentation (debridement and scaling)
Following positive diagnosis of periodontitis, causative plaque and biofilm were removed by instrumentation of the root surface using a combination of ultrasonic (left) and where appropriate manual curettes also (right). The use of micro curettes is recommended to facilitate cleaning of deep pockets.

2. PrefGel® used for root conditioning
Biofilm removal was followed by application of PrefGel®. PrefGel® was applied with distinct pressure in order to dislocate any blood from the pocket. PrefGel® was left in situ for 2 minutes.
3. Rinsing and removal of PrefGel®
Residual PrefGel® was removed by copious rinsing with water or saline. Removal from the interior pocket can be facilitated by the use of the water jet of the ultrasonic scaler for few seconds.

4. Hemostasis / Control of bleeding
Adequate measures to reduce bleeding and to achieve hemostasis have to be taken in order to avoid that Emdogain® FL is washed out from the pocket.

In our developed protocol (Graziani et al, JCP 2019), floss was applied in bleeding pockets and left in place for ca 1 minute until adequate low levels of bleeding were achieved.

5. Emdogain® FL application
After achieving adequate hemostasis, Emdogain® FL was applied starting from the very bottom of the pocket until excess Emdogain® FL expelled from the pocket margin.

The application procedure is recommended for all pockets with probing depth ≥ 5 mm.

6. Post-treatment care instructions
Post-treatment care instructions should include careful brushing in the treated area. Optimal supragingival cleaning and polishing as well as interdental cleaning should be encouraged and monitored as soon as possible.

7. Follow-up and re-evaluation
Patients are advised to be included in a routine periodontal follow-up treatment regime. Periodontal probing is recommended earliest after 2–3 months of healing phase.
Non-surgical treatment with Emdogain® FL as part of initial phase periodontal therapy.

- Efficient and effective
- Increased patient comfort
- Reduced need for follow-up treatment including surgery

**LITERATURE**


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**International Headquarters**

Institut Straumann AG  
Peter Merian-Weg 12  
CH-4002 Basel, Switzerland  
Phone +41 (0)61 965 11 11  
Fax +41 (0)61 965 11 01  
www.straumann.com

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