

Straumann® Emdogain® MI



TREATMENT

Mastering periodontal regeneration with minimally invasive surgery.

Straumann® Emdogain® is a mix of enamel matrix derivative that, when applied to a clean root surface, form an extracellular matrix that facilitates true periodontal regeneration.¹ Straumann® Emdogain® MI is the same trusted formulation, however the syringe is thinner for increased ease of use. Applying Straumann Emdogain MI in the esthetic zone using a minimally invasive surgical technique (MIST) leads to clinical improvements while limiting patient morbidity.^{2,3}

Compared to the conventional surgical treatment, the minimally invasive surgical technique is designed to reduce surgical trauma and increase wound stability. This leads to:

- reduced chair time
- increased patient comfort
- minimized side effects^{2,3}



Straumann Emdogain MI

The combination of the minimally invasive surgical technique and Straumann Emdogain leads to significant reductions in probing depths and improvements in attachment levels while producing no detectable recession.⁴



INCREASED PATIENT COMFORT

The effects of Straumann Emdogain may be maximized when MIST is applied, by improving the initial wound stability while minimizing patient morbidity.²⁻⁵



EXTENSIVELY RESEARCHED

Straumann Emdogain was released in US in 1996. Since then it's safety and efficacy has been documented in over 1,000 scientific publications, including 600 clinical studies covering various indications.⁶



EASY HANDLING

Due to the smaller cannula and gel consistency, Straumann Emdogain MI is easy to apply, even in defects that are difficult to access.

Clinical Procedure

Surgical treatment using Straumann® Emdogain® MI in a minimally invasive approach

1. Incise the papilla associated with the defect, using a papilla preservation technique.
2. Perform mechanical debridement and root planing. A clean root surface is very important.
3. Remove the smear layer by applying Straumann® PrefGel® (an EDTA-containing gel) in the pockets. Leave for 2 minutes.



4. Rinse with sterile saline and dry the contact surface as much as possible.
5. Immediately apply Straumann Emdogain onto the exposed root surfaces, starting at the most apical bone level, avoiding contamination with blood or saliva.
6. Reposition the flap and apply the sutures.



REFERENCES

- 1 Bosshardt DD. Biological mediators and periodontal regeneration: a review of enamel matrix proteins at the cellular and molecular levels. *J Clin Periodontol.* 2008 Sep; 35(8 Suppl):87-105.
- 2 Cortellini P, Tonetti MS. A minimally invasive surgical technique with an enamel matrix derivative in the regenerative treatment of intra-bony defects: a novel approach to limit morbidity. *J Clin Periodontol.* 2007;34(1):87-93. doi:10.1111/j.1600-051X.2006.01020.x.
- 3 Cortellini P, Nieri M, Pini Prato G, Tonetti MS. Single minimally invasive surgical technique with an enamel matrix derivative to treat multiple adjacent intra-bony defects: clinical outcomes and patient morbidity. *J Clin Periodontol* 2008; 35: 605-613. doi: 10.1111/j.1600-051X.2008.01242.x.
- 4 Harrel SK, Wilson TG Jr, Nunn ME. Prospective assessment of the use of enamel matrix derivative with minimally invasive surgery: 6-year results. *J Periodontol.* 2010;81(3): 435-441. doi:10.1902/jop.2009.090393.
- 5 Miron RJ, Sculean A, Cochran DL, Froum S, Zucchelli G, Nemcovsky C, Donos N, Lyngstadaas SP, Deschner J, Dard M, Stavropoulos A, Zhang Y, Trombelli L, Kasaj A, Shirakata Y, Cortellini P, Tonetti M, Rasperini G, Jepsen S, Bosshardt DD. Twenty years of enamel matrix derivative: the past, the present and the future. *J Clin Periodontol* 2016; doi: 10.1111/jcpe.12546.
- 6 According to PUBMED search for “Emdogain” or “enamel matrix derivative”.

Straumann North American Headquarters

Straumann USA, LLC
60 Minuteman Road
Andover, MA 01810
Phone 800/448 8168 (US) • 800/363 4024 (CA)
Fax 978/747 2490
www.straumann.us • www.straumann.ca

ifu.straumann.com