



Straumann® Emdogain® MI  
**Clinical Casebook**

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## Emdogain® MI Case



“The thinner syringe of Emdogain MI is the perfect complement to minimally invasive periodontal surgery, providing improved control for the delivery of the same formulation of Emdogain that I know and trust”

– Dr. John Tunnell, Periodontist in Dallas, TX



# Case: Videoscope Assisted Minimally Invasive Surgery Teeth #'s 6/7 and 11/12

PATIENT: 32 YEAR OLD FEMALE, NON-SMOKER, WITH NO CONTRIBUTORY MEDICAL CONDITIONS AND A HISTORY OF PERIODONTITIS

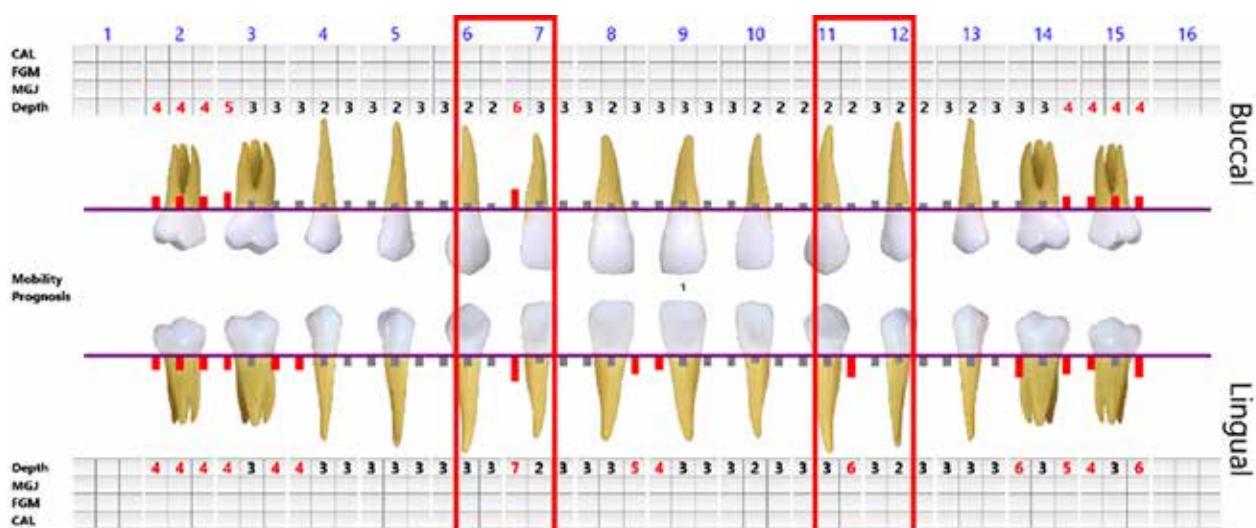
Patient reports a history of orthodontic therapy "from age 9 to 25" in her European country of origin. She reports first developing symptoms of periodontitis during that time.

Patient did not receive periodontal treatment until moving to US approximately 3 years ago.

She started with initial non-surgical therapy and then had "flap surgery" on #'s 2 and 3 approximately 18 months ago. Patient received regular periodontal maintenance q4m with GP for past 18 months.

Residual deep probing depths with BOP noted at re-evaluation with GP, so referred to me for consultation.

## INITIAL CHARTING



## INITIAL RADIOGRAPHS



## SURGICAL TREATMENT PLANS

- Videoscope Assisted Minimally Invasive Surgery (VMIS)
  - Site #'s: 6/7, 8/9, 11/12, 13/14 and 14/15
  - PrefGel® used for root biomodification
  - Emdogain® MI used as growth factor applied directly to dried root surface and mixed with bone graft
  - Bone graft utilized in surgical sites
- Site #'s 6/7 and 11/12 documented in this case

## SURGERY VMIS SITE # 6/7



Fig 1a Initial Photos



Fig 1b Initial Photos



Fig 1c Initial Incisions



Fig 1d Initial Incisions



Fig 1e View of Vertical Periodontal Defect as seen with MicroSight®



Fig 1f PrefGel Application



Fig 1g Emdogain® MI application through MicroSight



Fig 1h Closure



Fig 1i Closure



Fig 1j One Week Post Op



Fig 1k One Week Post Op

## SURGERY VMIS SITE # 11/12



Fig 2a Initial Photos



Fig 2b Initial Photos



Fig 2c Initial Incisions



Fig 2d Initial Incisions



Fig 2e View of Vertical Periodontal Defect as seen with MicroSight®



Fig 2f Emdogain® MI Application through MicroSight



Fig 2g Closure



Fig 2h Closure



Fig 2i One Week Post Op



Fig 2j One Week Post Op

## References

Tunnell JC, Harrel SK. Minimally Invasive Surgery in Periodontal Regeneration: A Review of the Literature. *Compend Contin Educ Dent*. 2017;38(4):e13-e16.

Harrel SK, Abraham CM, Rivera-Hidalgo F, Shulman J, Nunn M. Videoscope-assisted minimally invasive periodontal surgery (V-MIS) *J Clin Periodontol* 2014, DOI:10.1111

Harrel SK, Nunn ME, Abraham CM, Rivera-Hidalgo F, Shulman JD, Tunnell JC. Videoscope Assisted Minimally Invasive Surgery (VMIS): 36-Month Results. *J Periodontol*. 2017;527-535.

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