

## Literatur

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Dr. Bernd Heinz

Schmelzmatrixproteine – fast 20 Jahre im Einsatz

1. Bosshardt DD, Sculean A, Windisch P, Pjetursson BE, Lang NP.: Effects of enamel matrix proteins on tissue formation along the roots of human teeth. *J Periodontol Res.* 2005 Apr;40(2):158–67.
2. Buti J, Baccini M, Nieri M, La Marca M, Pini-Prato GP. Bayesian network meta-analysis of root coverage procedures: ranking efficacy and identification of best treatment. *J Clin Periodontol.* 2013 Apr;40(4):372–86. doi: 10.1111/jcpe.12028. Epub 2013 Jan 24.
3. Cochran DL, King GN, Schoolfield J, Velasquez-Plata D, Mellonig JT, Jones A.:The effect of enamel matrix proteins on periodontal regeneration as determined by histological analyses. *J Periodontol.* 2003 Jul;74(7):1043–55.
4. Cortellini P, Tonetti MS.: Clinical and radiographic outcomes of the modified minimally invasive surgical technique with and without regenerative materials: a randomized-controlled trial in intra-bony defects. *J Clin Periodontol.* 2011 Apr;38(4):365–73. doi: 10.1111/j.1600–051X.2011.01705.x. Epub 2011 Feb 8.
5. Cortellini P, Tonetti MS.: Improved wound stability with a modified minimally invasive surgical technique in the regenerative treatment of isolated interdental intrabony defects. *J Clin Periodontol.* 2009 Feb;36(2):157–63. doi: 10.1111/j.1600–051X.2008.01352.x.
6. 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 Jan;34(1):87–93.]
7. Hammarström L. Enamel matrix, cementum development and regeneration. *J Clin Periodontol.* 1997 Sep;24(9 Pt 2):658–68.
8. Hammarström L, Heijl L, Gestrelus S.: Periodontal regeneration in a buccal dehiscence model in monkeys after application of enamel matrix proteins. *J Clin Periodontol.* 1997 Sep;24(9 Pt 2):669–77.
9. Hammarström L.: The role of enamel matrix proteins in the development of cementum and periodontal tissues. *Ciba Found Symp.* 1997; 205:246–55; discussion 255–60.
10. Heijl L. Periodontal regeneration with enamel matrix derivative in one human experimental defect. A case report. *J Clin Periodontol.* 1997 Sep;24(9 Pt 2):693–6.
11. Hoffmann T, Richter S, Meyle J, Gonzales JR, Heinz B, Arjomand M, Sculean A, Reich E, Jepsen K, Jepsen S, Boedeker RH.: A randomized clinical multicentre trial comparing enamel matrix derivative and membrane treatment of buccal class II furcation involvement in mandibular molars. Part III: patient factors and treatment outcome. *J Clin Periodontol.* 2006 Aug;33(8):575–83.
12. Jepsen S, Topoll H, Rengers H, Heinz B, Teich M, Hoffmann T, Al-Machot E, Meyle J, Jervøe-Storm PM. Clinical outcomes after treatment of intra-bony defects with an EMD/synthetic bone graft or EMD alone: a multicentre randomized-controlled clinical trial. *J Clin*

- Periodontol. 2008 May;35(5):420–8. doi: 10.1111/j.1600–051X.2008.01217.x. Epub 2008 Mar 12.
13. Jepsen S, Heinz B, Jepsen K, Arjomand M, Hoffmann T, Richter S, Reich E, Sculean A, Gonzales JR, Bödeker RH, Meyle J. A randomized clinical trial comparing enamel matrix derivative and membrane treatment of buccal Class II furcation involvement in mandibular molars. Part I: Study design and results for primary outcomes. *J Periodontol.* 2004 Aug;75(8):1150–60.
  14. Jepsen S, Heinz B, Wachtel H: Gemeinsame Stellungnahme der DGP/DGZMK Regenerative Therapie mit einem Schmelzmatrixprotein (Emdogain). Stand 01/2002. DZZ 49 (94 ).
  15. Kauvar AS, Thoma DS, Carnes DL, Cochran DL.: In vivo angiogenic activity of enamel matrix derivative. *J Periodontol.* 2010 Aug;81(8):1196–201.
  16. Koop R, Merheb J, Quirynen M.: Periodontal regeneration with enamel matrix derivative in reconstructive periodontal therapy: a systematic review. *J Periodontol.* 2012 Jun;83(6):707–20. doi: 10.1902/jop.2011.110266. Epub 2011 Nov 3.
  17. Meyle J, Hoffmann T, Topoll H, Heinz B, Al-Machot E, Jervøe-Storm PM, Meiss C, Eickholz P, Jepsen S.: A multi-centre randomized controlled clinical trial on the treatment of intra-bony defects with enamel matrix derivatives/synthetic bone graft or enamel matrix derivatives alone: results after 12 months. *J Clin Periodontol.* 2011 Jul;38(7):652–60
  18. Meyle J, Gonzales JR, Bödeker RH, Hoffmann T, Richter S, Heinz B, Arjomand M, Reich E, Sculean A, Jepsen K, Jepsen S. A randomized clinical trial comparing enamel matrix derivative and membrane treatment of buccal class II furcation involvement in mandibular molars. Part II: secondary outcomes. *J Periodontol.* 2004 Sep;75(9):1188–95.
  19. Pecanov-Schröder A.: Die Anwendung von Emdogain in Praxis und Forschung. *Dent Implantol.* 2013 Aug; 17(8):606–11.
  20. Pecanov-Schröder A.: Regenerative Parodontaltherapie – Effizient mit Emdogain. *Dent Implantol.* 2014 Apr; 18(4): 306–10.
  21. Pimentel SP, Sallum AW, Saldanha JB, Casati MZ, Nociti FH Jr, Sallum EA.: Enamel matrix derivative versus guided tissue regeneration in the presence of nicotine: a histomorphometric study in dogs. *J Clin Periodontol.* 2006 Dec;33(12):900–7. Epub 2006 Sep 13.
  22. Sakallioğlu U, Açıkgöz G, Ayas B, Kirtiloğlu T, Sakallioğlu E.: Healing of periodontal defects treated with enamel matrix proteins and root surface conditioning--an experimental study in dogs. *Biomaterials.* 2004 May;25(10):1831–40.
  23. Sanz M, Tonetti MS, Zabalegui I, Sicilia A, Blanco J, Rebelo H, Rasperini G, Merli M, Cortellini P, Suvan JE.: Treatment of intrabony defects with enamel matrix proteins or barrier membranes: results from a multicenter practice-based clinical trial. *J Periodontol.* 2004 May;75(5):726–33.
  24. Sculean A, Chiantella GC, Windisch P, Donos N.: Clinical and histologic evaluation of human intrabony defects treated with an enamel matrix protein derivative (Emdogain). *Int J Periodontics Restorative Dent.* 2000 Aug;20(4):374–81.
  25. Sculean A.: In Kombination von Emdogain und Gewebersatzmaterial (EMD und BioOss und GTR). *Int J Periodontics Restorative Dent.* 2004 Aug;24(4):326–33.

26. Sculean A, Windisch P, Szendrői-Kiss D, Horváth A, Rosta P, Becker J, Gera I, Schwarz F.: Clinical and histologic evaluation of an enamel matrix derivative combined with a biphasic calcium phosphate for the treatment of human intrabony periodontal defects. *J Periodontol.* 2008 Oct;79(10):1991–9.
27. Sculean A, Donos N, Schwarz F, Becker J, Brecx M, Arweiler NB. :Five-year results following treatment of intrabony defects with enamel matrix proteins and guided tissue regeneration. *J Clin Periodontol.* 2004 Jul;31(7):545–9.
28. Spahr A, Haegewald S, Tsoulfidou F, Rompolá E, Heijl L, Bernimoulin JP, Ring C, Sander S, Haller B.: Coverage of Miller class I and II recession defects using enamel matrix proteins versus coronally advanced flap technique: a 2-year report. *J Periodontol.* 2005 Nov;76(11):1871–80.
29. Stratul S, Rusu D, Sculean A. The use of an enamel matrix protein derivative (Emdogain) in regenerative periodontal therapy. Which applications are evidence based? Part III. Results from human histological studies. *Timisoara Medical Journal* 2008; 58:108–110.
30. Trombelli L, Heitz-Mayfield LJ, Needleman I, Moles D, Scabbia A.: A systematic review of graft materials and biological agents for periodontal intraosseous defects. *J Clin Periodontol.* 2002;29 Suppl 3:117–35; discussion 160–2.
31. Wada Y, Mizuno M, Nodasaka Y, Tamura M. The effect of enamel matrix derivative on spreading, proliferation, and differentiation of osteoblasts cultured on zirconia. *Int J Oral Maxillofac Implants.* 2012 Jul-Aug;27(4):849–58.