

- [1] Caton JG, Greenstein GG: Factors related to periodontal regeneration. *Periodontol 2000* 3 (1), 9–15 (1993).
- [2] Cortellini P, Tonetti MS: Long-term tooth survival following regenerative treatment of intrabony defects. *J Periodontol* 75, 672–678 (2004).
- [3] Cortellini P, Pini Prato G, Tonetti MS: Periodontal regeneration of human intrabony defects with bioresorbable membranes. A controlled clinical trial. *J Periodontol* 67, 217–223 (1996).
- [4] Cortellini P, Paolo G, Prato P, Tonetti MS: Long-term stability of clinical attachment following guided tissue regeneration and conventional therapy. *J Clin Periodontol* 23, 106–111 (1996).
- [5] Cortellini P, Pini-Prato G, Tonetti M: Periodontal regeneration of human infrabony defects (V). Effect of oral hygiene on long-term stability. *J Clin Periodontol* 21, 606–610 (1994).
- [6] Cortellini P, Prato GP, Tonetti MS: The modified papilla preservation technique. A new surgical approach for interproximal regenerative procedures. *J Periodontol* 66, 261–266 (1995).
- [7] Cortellini P, Prato GP, Tonetti MS: The simplified papilla preservation flap. A novel surgical approach for the management of soft tissues in regenerative procedures. *Int J Periodontics Restorative Dent* 19, 589–599 (1999).
- [8] Cortellini P, Tonetti MS: Clinical performance of a regenerative strategy for intrabony defects: scientific evidence and clinical experience. *J Periodontol* 76, 341–350 (2005).
- [9] Döri F, Arweiler N, Gera I, Sculean A: Clinical evaluation of an enamel matrix protein derivative combined with either a natural bone mineral or beta-tricalcium phosphate. *J Periodontol* 76, 2236–2243 (2005).
- [10] Döri F, Arweiler N, Szantó E, Agics A, Gera I, Sculean A: Ten year results following treatment of intrabony defects with an enamel matrix protein derivative combined with either a natural bone mineral or a beta-tricalcium phosphate. *J Periodontol* 2012 [Epub ahead of print].
- [11] Dori F, Huszar T, Nikolidakis D, Arweiler NB, Gera I, Sculean A: Effect of platelet-rich plasma on the healing of intrabony defects treated with an anorganic bovine bone mineral and expanded polytetrafluoroethylene membranes. *J Periodontol* 78, 983–990 (2007).
- [12] Dori F, Huszar T, Nikolidakis D, Arweiler NB, Gera I, Sculean A: Effect of platelet-rich plasma on the healing of intra-bony defects treated with a natural bone mineral and a collagen membrane. *J Clin Periodontol* 34, 254–261 (2007).
- [13] Dori F, Huszar T, Nikolidakis D, Tihanyi D, Horvath A, Arweiler NB, et al. Effect of platelet rich plasma on the healing of intrabony defects treated with a β -tricalcium phosphate and expanded polytetrafluoroethylene membranes. *J Periodontol* 79, 660–669 (2008).
- [14] Dori F, Kovacs V, Arweiler NB, Huszar T, Gera I, Nikolidakis D, Sculean A: Effect of platelet-rich plasma on the healing of intrabony defects treated with an anorganic bovine bone mineral: a pilot study. *J Periodontol* 80, 1599–1605 (2009).
- [15] Eickholz P, Horr T, Klein F, Hassfeld S, Kim T.: Radiographic parameters for prognosis of periodontal healing of infrabony defects: two different definitions of defect depth. *J Periodontol* 75, 399–407 (2004).
- [16] Filippi A, Pohl Y, von Arx T: Treatment of replacement resorption with Emdogain – a prospective clinical study. *Dent Traumatol* 18, 138–143 (2002).
- [17] Froum S, Lemler J, Horowitz R, Davidson B: The use of enamel matrix derivative in the treatment of periodontal osseous defects: a clinical decision tree based on biologic principles of regeneration. *Int J Periodontics Restorative Dent* 21, 437–449 (2001).
- [18] Giannobile WV, Sommerman MJ: Growth and amelogenin-like factors in periodontal wound healing. A systematic review. *Ann Periodontol* 8, 193–204 (2003).

- [19] Gottlow J, Nyman S, Lindhe J, Karring T, Wennström J: New attachment formation in the human periodontium by guided tissue regeneration. Case reports. *J Clin Periodontol* 13, 604–616 (1986).
- [20] Guida L, Annunziata M, Belardo S, Farina R, Scabbia A, Trombelli L: Effect of autogenous cortical bone particulate in conjunction with enamel matrix derivative in the treatment of periodontal intraosseous defects. *J Periodontol* 78, 231–238 (2007).
- [21] Gurinsky BS, Mills MP, Mellong JT: Clinical evaluation of demineralized freeze-dried bone allograft and enamel matrix derivative versus enamel matrix derivative alone for the treatment of periodontal osseous defects in humans. *J Periodontol* 75, 1309–1318 (2004).
- [22] Hammarström L: Enamel matrix, cementum development and regeneration. *J Clin Periodontol* 24, 658–668 (1997).
- [23] Hanna R, Trejo PM, Weltman RL: Treatment of intrabony defects with bovine-derived xenograft alone and in combination with platelet-rich plasma: a randomized clinical trial. *J Periodontol* 75, 1668–1677 (2004).
- [24] Haney JM, Nilvénus RE, McMillan PJ, Wiksjö UME: Periodontal repair in dogs: expanded polytetrafluoroethylene barrier membranes support wound stabilization and enhance bone regeneration. *J Periodontol* 64, 883–890 (1993).
- [25] Howell TH, Fiorellini JP, Paquette DW, Offenbacher S, Giannobile WV, Lynch SE: A phase I/II clinical trial to evaluate a combination of recombinant human platelet-derived growth factor-BB and recombinant human insulin-like growth factor-I in patients with periodontal disease. *J Periodontol* 68, 1186–1193 (1997).
- [26] Jepsen S, Eberhard J, Herrera D, Needleman I: A systematic review of guided tissue regeneration for periodontal furcation defects. What is the effect of guided tissue regeneration compared with surgical debridement in the treatment of furcation defects? *J Clin Periodontol* 29 (Suppl 3), 103–116; discussion 160–102 (2002).
- [27] Jepsen S, Heinz B, Jepsen K: 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* 75, 1150–1160 (2004).
- [28] Karring T, Nyman S, Gottlow J, Laurell L: Development of the biological concept of guided tissue regeneration – animal and human studies. *Periodontol* 2000 1, 26–35 (1993).
- [29] Karring T, Nyman S, Lindhe J: Healing following implantation of periodontitis affected roots into bone tissue. *J Clin Periodontol* 7, 96–105 (1980).
- [30] Klein F, Kim TS, Hassfeld S: Radiographic defect depth and width for prognosis and description of periodontal healing of infrabony defects. *J Periodontol* 72, 1639–1646 (2001).
- [31] Kwok V, Caton J: Prognosis revisited: a system for assigning periodontal prognosis. *J Periodontol* 78, 2063–2071 (2007).
- [32] Lang NP, Tonetti MS: Periodontal diagnosis in treated periodontitis. Why, when and how to use clinical parameters. *J Clin Periodontol* 23, 240–250 (1996).
- [33] Lekovic V, Camargo PM, Weinlaender M, Nedic M, Aleksic Z, Kenney BE: A comparison between enamel matrix proteins used alone or in combination with bovine porous bone mineral in the treatment of intrabony periodontal defects in humans. *J Periodontol* 71, 1695–1701 (2000).
- [34] Lindhe J, Westfält E, Nyman S, Sokranksy SS, Haffajee AD: Long-term effect of surgical/non-surgical treatment of periodontal disease. *J Clin Periodontol* 11, 448–458 (1984).
- [35] Marx RE, Carlson ER, Eichstaedt RM, Schimmele SR, Strauss JE, Georgeff KR: Platelet-rich plasma: growth factor enhancement for bone grafts. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 85, 638–646 (1998).
- [36] Marx RE: Platelet-rich plasma: evidence to support its use. *J Oral Maxillofac Surg* 62, 489–496 (2004).
- [37] Matuliene G, Pjetursson BE, Salvi GE, Schmidlin K, Brägger U, Zwahlen M, Lang NP: Influence of residual pockets on progression of periodontitis and tooth loss: results after 11 years of maintenance. *J Clin Periodontol* 35, 685–695 (2008).
- [38] McGuire MK, Nunn ME: Prognosis versus actual outcome. II. The effectiveness of clinical parameters in developing an accurate prognosis. *J Periodontol* 67, 658–665 (1996).

- [39] McGuire MK, Nunn ME: Prognosis versus actual outcome. III. The effectiveness of clinical parameters in accurately predicting tooth survival. *J Periodontol* 67, 658–665 (1996).
- [40] Nevins M, Giannobile WV, McGuire MK: Platelet-derived growth factor stimulates bone fill and rate of attachment level gain: results of a large multicenter randomized controlled trial. *J Periodontol* 76, 2205–2215 (2005).
- [41] Nyman S, Karring T, Lindhe J, Planten S: Healing following implantation of periodontitis-affected roots into gingival connective tissue. *J Clin Periodontol* 7, 394–401 (1980).
- [42] Paolantonio M: Combined regenerative technique in human intrabony defects by collagen membranes and anorganic bovine bone. A controlled clinical study. *J Periodontol* 73, 158–166 (2002).
- [43] Piemontese M, Aspriello SD, Rubini C, Ferrante L, Procaccini M: Treatment of periodontal intrabony defects with demineralised freeze-dried bone allograft in combination with platelet-rich plasma: a comparative clinical trial. *J Periodontol* 79, 802–810 (2008).
- [44] Polimeni G, Xiropaidis AV, Wikesjö UME: Biology and principles of periodontal wound healing/regeneration. *Periodontol* 2000 41, 30–47 (2006).
- [45] Polimeni G, Koo KT, Qahash M, Xiropaidis AV, Albandar JM, Wikesjö UME: Prognostic factors for alveolar regeneration: effect of a space-providing biomaterial on guided tissue regeneration. *J Clin Periodontol* 31, 725–729 (2004).
- [46] Pontoriero R, Lindhe J: Guided tissue regeneration in the treatment of degree II furcations in maxillary molars. *J Clin Periodontol* 22, 756–763 (1995).
- [47] Pretzl B, Kim TS, Steinbrenner H, Dörfer C, Himmer K, Eickholz P: Guided tissue regeneration with bioabsorbable barriers. III. 10-year results in infrabony defects. *J Clin Periodontol* 36, 349–356 (2009).
- [48] Sculean A, Kiss A, Miliauskaitė A, Schwarz F, Arweiler NB, Hannig M: Ten-year results following treatment of intra-bony defects with enamel matrix proteins and guided tissue regeneration. *J Clin Periodontol* 35, 817–824 (2008).
- [49] Sculean A, Donos N, Windisch P, Gera I, Brecx M, Reich E: Healing of human intrabony defects following treatment with enamel matrix proteins or guided tissue regeneration. *J Periodont Res* 34, 310–322 (1999).
- [50] Sculean A, Alessandri R, Miron R, Salvi GE, Bosshardt DD: Enamel matrix proteins and periodontal wound healing and regeneration. *Clin Adv Periodontics* 1, 101–117 (2011).
- [51] Sculean A, Auschill TM, Donos N, Brecx M, Arweiler NB: Effect of an enamel matrix protein derivative (Emdogain) on ex vivo dental plaque vitality. *J Clin Periodontol* 28, 1074–1078 (2001).
- [52] Sculean A, Windisch P, Keglevich T, Fabi B, Lundgren E, Lyngstadaas PS: Presence of an enamel matrix protein derivative on human teeth following periodontal surgery. *Clin Oral Investig* 6, 183–187 (2002).
- [53] Sculean A, Windisch P, Keglevich T, Chiantella GC, Gera I, Donos N: Clinical and histologic evaluation of human intrabony defects treated with an enamel matrix protein derivative combined with a bovine-derived xenograft. *Int J Periodont Restor Dent* 23, 47–55 (2003).
- [54] Sculean A, Barbé G, Chiantella GC, Arweiler NB, Berakdar M, Brecx M: Clinical evaluation of an enamel matrix protein derivative combined with a bioactive glass for the treatment of intrabony periodontal defects in humans. *J Periodontol* 73, 401–408 (2002).
- [55] Sculean A, Chiantella GC, Windisch P, Gera I, Reich E: Clinical evaluation of an enamel matrix protein derivative (Emdogain) combined with a bovine derived xenograft (Bio-Oss) for the treatment of intrabony periodontal defects in humans. *Int J Periodont Restor Dent* 22, 259–267 (2002).
- [56] Sculean A, Pietruska M, Schwarz F, Willershausen B, Arweiler NB, Auschill TM: Healing of human intrabony defects following regenerative periodontal therapy with an enamel matrix protein derivative alone or combined with a bioactive glass. A controlled clinical study. *J Clin Periodontol* 32, 111–117 (2005).
- [57] Sculean A, Windisch P, Keglevich T, Gera I: Clinical and histological evaluation of an enamel matrix protein derivative combined with a bioactive glass for the treatment of intrabony periodontal defects in humans. *Int J Periodont Restor Dent* 25, 139–147 (2005).

- [58] Sculean A, Nikolidakis D, Schwarz F: Regeneration of periodontal tissues: combinations of barrier membranes and grafting materials – biological foundation and preclinical evidence. A systematic review. *J Clin Periodontol* 35 (Suppl. 8), 106–116 (2008).
- [59] Sculean A, Berakdar M, Chiantella GC, Donos N, Arweiler NB, Brecx M: Healing of intrabony defects following treatment with a bovine-derived xenograft and collagen membrane: a controlled clinical study. *J Clin Periodontol* 30, 73–80 (2003).
- [60] Sculean A, Chiantella GC, Windisch P, Arweiler NB, Brecx M, Gera I: Healing of intrabony defects following treatment with a composite bovine derived xenograft (Bio-Oss Collagen) in combination with a collagen membrane (Bio-Gide PERIO). *J Clin Periodontol* 32, 720–724 (2005).
- [61] Sculean A, Windisch P, Chiantella GC: Human histologic evaluation of an intrabony defect treated with enamel matrix derivative, xenograft, and GTR. *Int J Periodont Restor Dent* 24, 326–333 (2004).
- [62] Sculean A, Schwarz F, Chiantella GC, Donos N, Arweiler NB, Brecx M, Becker J: Five-year results of a prospective, randomized, controlled study evaluating treatment of intrabony defects with a natural bone mineral and GTR. *J Clin Periodontol* 34, 72–77 (2007).
- [63] Tonetti MS, Prato GP, Cortellini P: Factors affecting the healing response of intrabony defects following guided tissue regeneration and access flap surgery. *J Clin Periodontol* 23, 548–556 (1996).
- [64] Tonetti MS, Cortellini P, Lang NP, Suvan JE, Adriaens P, Dubravec D: Clinical outcomes following treatment of human intrabony defects with GTR/bone replacement material or access flap alone: a multicenter randomized controlled clinical trial. *J Clin Periodontol* 31, 770–776 (2004).
- [65] Tonetti MS, Pini-Prato G, Cortellini P: Periodontal regeneration of human intrabony defects. IV. Determinants of healing response. *J Periodontol* 64, 934–940 (1993).
- [66] Tozum TF, Demiralp B: Platelet-rich plasma: a promising innovation in dentistry. *J Can Dent Assoc* 69, 664a–h (2003).
- [67] Trombelli L, Lee MB, Promsudthi A, Guglielmoni PG, Wikesjö UME: Periodontal repair in dogs: histologic observations of guided tissue regeneration with a prostaglandin E1 analog/methacrylate composite. *J Clin Periodontol* 26, 381–387 (1999).
- [68] Tsitoura E, Tucker R, Suvan J, Laurell L, Cortellini P, Tonetti M: Baseline radiographic defect angle of the intrabony defect as a prognostic indicator in regenerative periodontal surgery with enamel matrix derivative. *J Clin Periodontol* 31, 643–647 (2004).
- [69] Velasquez-Plata D, Scheyer ET, Mellonig JT: Clinical comparison of an enamel matrix derivative used alone or in combination with a bovine-derived xenograft for the treatment of periodontal osseous defects in humans. *J Periodontol* 73, 433–440 (2002).
- [70] Wikesjö UME, Selvig K: Periodontal wound healing and regeneration. *Periodontol 2000* 19, 21–39 (1999).
- [71] Wikesjö UM, Crigger M, Nilvénus R, Selvig KA: Early healing events at the dentin-connective tissue interface. Light and transmission electron microscopy observations. *J Periodontol* 62, 5–14 (1991).
- [72] Yilmaz S, Cakar G, Yildirim B, Sculean A: Healing of two and three wall intrabony periodontal defects following treatment with an enamel matrix derivative combined with autogenous bone. *J Clin Periodontol* 37, 544–550 (2010).
- [73] Zucchelli G, Amore C, Montebugnoli L, de Sanctis M: Enamel matrix proteins and bovine porous bone mineral in the treatment of intrabony defects: a comparative controlled clinical trial. *J Periodontol* 74, 1725–1735 (2003).