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study

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# Entire papilla preservation technique in the regenerative treatment of deep intrabony defects: One-year results

Serhat Aslan, Nurcan Buduneli, and Pierpaolo Cortellini J Clin Periodontol 2017: 44 (9): 926-932

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## RELEVANT BACKGROUND

Different flap designs, such as the modified papilla-preservation technique (Tonetti & Cortellini, 1995) and the modified minimally invasive surgical technique (Cortellini & Tonetti, 2007), have been proposed in the past in the field of reconstructive therapies as ways to improve primary closure and thereby prevent early wound-healing failure. These techniques, however, include a horizontal or diagonal incision in the defect-associated papilla, which may be a risk factor for wound failure.

#### AIMS

The aim of this case series was to evaluate the clinical applicability and one-year outcomes of a novel surgical procedure – the "entire papilla preservation technique" (EPP) – in the regenerative treatment of isolated deep intrabony defects.

## MATERIALS AND METHODS

Twelve systemically healthy non-smoking patients, exhibiting at least one site with a two-or three-wall intrabony defect with PPD and CAL ≥7mm and an intrabony component ≥4mm, were included in the study. After completion of a non-surgical treatment phase, all subjects reached full-mouth plaque and bleeding scores ≤20%. Clinical parameters (PD, CAL, REC) were recorded at baseline (≥3 months after completion of cause-related therapy), and 12 months after the surgical procedure.

Following a buccal intra-crevicular incision, a bevelled vertical releasing incision was performed in the buccal gingiva of the neighbouring interdental space and extending just beyond the mucogingival line to provide adequate access to the intrabony defect. A full-thickness mucoperiostal buccal flap was raised and an interdental tunnel was prepared providing access to the defect-associated area. After removal of inflammatory tissue and debridement of the root surface(s), enamel matrix derivatives (Emdogain) and porcine-derived bone substitutes (Gen-Os) were applied.

All subjects received systemic Doxycycline during the first postoperative week and were enrolled in a maintenance recall programme on a weekly basis during the first month and, thereafter, once per month.



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results

- Twelve patients with a total of 12 intrabony defects were evaluated 12 months after reconstructive surgery. Seven teeth in the maxilla (six incisors and one premolar) and five teeth in the mandible (two incisors, one cuspid, and two molars) were included. Good primary wound closure was obtained in all cases. At one year, mean PD-reduction was 7±2.8mm. No sites demonstrated residual pocket depth greater than 5mm. Ten sites showed PD of 2-3mm and two sites with 4-5mm.
- The mean CAL improvement was 6.83±2.51mm, with nine sites showing ≥6mm and three sites 4-5mm of attachment gain.
- No difference in recession from baseline to one year could be observed.
- A small improvement (statistically significant) regarding full-mouth plaque and bleeding scores was observed at one year.



## LINK TO ORIGINAL JCP ARTICLE:

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