

Porcine dermal matrix for covering of recession type defects: a case series

ABSTRACT

The aim of the Authors was to study the clinical applicability of porcine dermal matrix for treatment of recession type defects. In order to do this, twenty-eight gingival recessions in six patients were selected for root coverage procedures using a modified tunneling technique and porcine dermal matrix (PDM). In this observational trial, one specialized clinician performed recession coverage using modified tunneling techniques: the buccal gingiva was undermined in a split-thickness fashion, the interproximal buccal soft tissues were elevated, and PDM (OsteoBiol® *Derma*, Tecnos®, Giaveno, Italy) was trimmed to size, hydrated in sterile saline for 3 to 5 minutes, pulled into the tunnel and fixed in position by anchoring sutures.

Healing was uneventful for all 28 covered defects, without any PDM exposure at any time. Depth and width of gingival recession were assessed at baseline and at 6 and 12 months postoperatively and the mean root coverage was 65.52% and 56.82% respectively and the complete root coverage was achieved in 42.86% of the treated defects.

CONCLUSIONS

The results of this study demonstrate that porcine dermal matrix can potentially be used as a replacement material for autologous tissue in case of recession defects. The Authors underline that a randomized controlled clinical study is needed to prove its potential and the long-term reaction following root coverage.

PERIODONTAL REGENERATION

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