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Sub-Epithelial Connective Tissue Graft with and without Enamel Matrix Derivative in the Management of Periodontal Recession

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Background: The aim of this study was to compare the effectivity and stability of subepithelial connective tissue graft (CTG) with and without enamel matrix derivative (EMD) in the treatment of Class I-II Miller periodontal recession defects.

Methods: This randomized clinical study was performed for 2 years at a private periodontal practice. 120 teeth divided into two groups: Group 1 (CTG with EMD - 68 teeth) and Group 2 (SCTG only - 52 teeth) were assessed. Clinical parameters such as Recession values (REC), Keratinized Tissue (KT) and probing depth (PD) were measured at baseline, 3rd and 24 months.

Results: Both treatments showed significant root coverage after 2 years. The mean periodontal recession decreased from 4.5 mm to .41 mm for Group 1 and 4.2 mm to .29 mm in Group 2. This result was not statistically significant. The mean KT increased from 1.5 mm to 2.5 mm in Group 1 and 1.6 mm to 1.9 mm in Group 2. This was statistically significant ($p < .01$). The mean PD measurement remained shallow at all times (1 mm – 1.3 mm) and not statistically significant in both groups.

Conclusion: CTG provide predictable result in achieving root coverage in Class I-II Miller periodontal recessions. The addition of enamel matrix derivative seems to provide higher amount of new keratinized tissue.

Biography:

Faustino Tino Mercado finished his Postgraduate Diploma in Oral Pathology at the University of Queensland in 1997 and went on to finish his Masters in Dental Science in Periodontics in the same University in 2000. He was involved in the dental undergraduate and periodontal postgraduate training at the University of Queensland and more recently at the University of Sydney