

Amniotic Membrane in Periodontics: An Insight

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Abstract

Periodontal diseases leading to deterioration of tooth supporting structures are a serious concern for clinicians. The clinical application of amniotic membrane for guided tissue regeneration (GTR) while fulfilling the current mechanical concept of GTR, amends it with the modern concept of biological GTR. Amniotic membrane not only maintains the structural and anatomical configuration of regenerated tissues but also contribute to enhancement of healing.

Key words: Amniotic, Guided tissue regeneration, Periodontics, Stem cell

INTRODUCTION

Periodontal disease is a chronic inflammatory condition that occurs in response to predominantly Gram-negative bacterial infection originating from dental plaque.¹

Prior to the 1950s, periodontitis was treated mostly by tooth exfoliation or extraction, and that is still the predominant treatment for most of the world's populations today. Until the 1980s, the most commonly used treatment consisted of scaling and root planing, followed by resective surgery aimed at achieving zero pocket depth. During the 1980s, data were obtained demonstrating that the thoroughness of root debridement and subgingival infection control, not the presence or absence of periodontal pockets, is the major determinant of successful periodontal therapy, and non-surgical therapy became a commonly used treatment. Neither resective surgery nor non-surgical therapy results in significant regeneration of periodontal attachment. Recent data clearly show that regeneration of the previously destroyed periodontal attachment tissues is biologically possible, and regeneration has become the goal of therapy for the 1990s.²

Regeneration by grafting may be further enhanced by the use of barrier membranes that exclude gingival fibroblasts and epithelium from the healing site. Still further enhancement seems to be possible by local application of various growth factors although studies in this important area are now only in their infancy. The future of periodontal therapy is exceedingly bright.³

However, the current regenerative procedures have limitations in attaining complete and predictable regeneration, especially in advanced periodontal defects.⁴

For successful periodontal regeneration, formation of a functional epithelial seal, insertion of new connective tissue fibers into the root, reformation of a new acellular cementum on the tooth surface and restoration of alveolar bone height are required. The complex events associated with periodontal regeneration involve recruitment of locally-derived progenitor cells that can differentiate into periodontal ligament cells, mineral-forming cementoblasts, or bone-forming osteoblasts.^{4,5}

Advances in stem cell biology and regenerative medicine have presented opportunities for tissue engineering and gene-based approaches in periodontal therapy.^{6,7} These new approaches offers interesting alternatives to existing therapies for the repair and regeneration of the periodontium.

Applications of amnion membrane include chemical or thermal burns, correction of corneal epithelial defects,

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