

PerioCol-GTRTM

Sterile Collagen Periodontal Membrane (fish origin) for Guided Tissue Regeneration

Introduction

Periodontitis causes pathological alterations of the periodontium, seen as loss of connective tissue attachment to the tooth, loss of supporting alveolar bone and apical migration of the junctional epithelium along the root surface. Periodontal therapy is directed at arresting the progression of these events, with the goal of stabilizing the long-term prognosis of the periodontium.

The regeneration of the periodontium with new connective fiber insertion, new cementum and new bone formation constitutes ideal healing. The regeneration process can only be initiated by periodontal ligament cells derived from the remaining periodontium as these are the cells capable of differentiating into new fibroblasts, cementoblasts and osteoblasts.

Nyman et al (1982) suggested the placement of a physical barrier between the flap and the root surface to exclude gingival connective tissue and epithelium from the healing process, giving the periodontal ligament cells the opportunity to repopulate the coagulum on the root surface. This technique was named 'Guided Tissue regeneration' (GTR).

Various bioresorbable and non-resorbable barriers have been tried for GTR. Among non-resorbable barriers the expanded Polytetrafluoroethylene (ePTFE) barriers are widely used. However since these membranes require a second surgical procedure for removal, possibly jeopardizing the benefits achieved by the procedure, bio-absorbable barriers are preferred. The bio-absorbable barriers include poly (lactic acid), poly (glycolic acid) and their co-polymers: and collagen. Various collagen barriers of bovine, rat and porcine origin have been used successfully for GTR in human intrabony and furcation defects.

A novel bioresorbable collagen barrier membrane of fish origin has been developed for GTR applications in human periodontal intrabony and furcation defects.

Collagen

Collagen is an extra cellular matrix protein playing a major role in connective tissue. It is the most abundant protein in humans and performs multiple functions. In fish, the largest concentration of collagen is found in the skeleton, fins, skin and air bladder.

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PerioCol-GTRTM

Description

PerioCol-GTR is an orange-brown Type 1 collagen membrane derived from fish sources and available in various dimensions. It is Gamma sterilized and supplied in individual blister packing.

Since Collagen is derived from fish sources, there is no threat of BSE/TSE. It is non-toxic, non-allergenic & non-immunogenic and overall biocompatible.

PerioCol-GTR shows low incidence of gingival recession, device exposure and gingival pathology. In combination with hydroxyapatite graft and platelet rich plasma **PerioCol-GTR** is an excellent alternative treatment modality in the management of intrabony defects and holds a promising future.

Indications

- ✓ Periodontal intrabony and furcation defects.
- ✓ Management of gingival recession.
- ✓ Guided bone regeneration.

Application & User Guide

Prior to surgery, the patient is to be given careful instructions on proper oral hygiene. A full mouth supra and sub gingival and root planning is to be performed.

Surgical procedure in selected defects should be done one month after termination of presurgical phase. Following local anesthesia, intracrevicular incisions should be made and full thickness flaps raised on buccal and lingual aspects of experimental tooth. All granulation tissues should be removed. Root conditioning can be an option. The membrane is trimmed into suitable configuration to cover the defect. The membrane is soaked in distilled water before placement, to improve adhesion properties and malleability. It is then adapted over the defect extending 2-3 mm apical to the crest of the existing bone, so as to provide a broad base during placement. The flaps should be secured with interdental sutures to obtain primary closure of the individual tissues. A periodontal dressing should be given for 7-10 days. The patient should be reviewed after 1 week.

Storage

PerioCol-GTR can be stored in a dry place at or below 25°C.

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