

PerioCol-CGTM

Sterile Collagen Periodontal Chip (fish origin)

A cost effective solution in the management of Periodontitis & Gingivitis

Introduction

Periodontitis, a disease of periodontium initiated in the gingiva can be managed by several therapeutic approaches. The use of sustained release local delivery is used widely in various fields of medicine in the new era including periodontal therapy.

The classical treatment of Periodontitis consists of surgical and non-surgical management. Surgical management is done for pockets greater than 4 mm. Non-surgical managements include repeated supra and sub gingival professional plaque and calculus removal. It seems that local application of antimicrobials like mouthwashes and gels that are effective against periodontal pathogens, can reduce the pocket depth. However, the disadvantage of the system is that the exact concentration of antimicrobial cannot be achieved at the site of application and their access to periodontal pocket and the sub gingival flora is limited.

A new approach using local delivery systems containing antimicrobial is being introduced to produce more constant and prolonged concentration profiles. The periodontal pocket provides a natural reservoir bathed by gingival crevicular that is easily accessible for the insertion of a delivery device. The gingival crevicular fluid provides a leaching medium for the release of the drug from the solid dosage form and its distribution throughout the pocket.

The first generation non-degradable devices have been replaced by the second-generation degradable devices possessing great advantage of requiring the patient to pay only a single visit to the therapists for insertion of the device, thus minimizes the patient visits and ensures compliance.

Collagen, the biomaterial known for its excellent wound healing properties and biocompatibility has been used as a carrier device that is biodegradable. Chlorhexidine Gluconate with its proven usage in dental systems as a safe and powerful antimicrobial agent has been selected and an efficient sustained release system is being offered to contain the problematic periodontitis.

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.

Chlorhexidine Gluconate

It is an antimicrobial agent and is active against a broad spectrum of microbes. The Chlorhexidine molecule, due to its positive charge, reacts with microbial cell surface, destroys the integrity of the cell membrane, penetrates into the cell, precipitates the cytoplasm and the cell dies. This consequently leads to improvement of Gingival and Periodontal health.

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PerioCol-CGTM

Description

PerioCol-CG is a small, orange-brown in a rectangular chip form (rounded at one end) for easy insertion into periodontal pockets. Each **PerioCol-CG** contains approximately 2.5 mg of chlorhexidine gluconate in a biodegradable matrix of Type 1 collagen derived from fish sources. It is Gamma sterilized and supplied in individual aluminium blister packing.

Pharmacokinetics

PerioCol-CG releases chlorhexidine in vitro with a release profile of approximately 40-45% within 24 hours and thereon in a linear fashion for 7 - 8 days. The release profile may be explained as an initial burst effect, due to diffusion of the drug from the chip followed by release of the drug due to enzymatic degradation.

Salient Features

- Derived from fish sources - No threat of BSE/TSE.
- Non-toxic, non-allergenic, non-immunogenic & non-pyrogenic
- Biocompatible

Indications

- ✓ Adult Periodontitis and an adjunct to scaling and root planning.
- ✓ For periodontal maintenance program
- ✓ Patients unfit for Periodontal surgical procedures due to various systemic conditions.

Contraindications

PerioCol-CG should not be used in any patient with a known sensitivity to Chlorhexidine.

Not recommended in acutely abscessed periodontal pocket.

Application & User Guide

The periodontal pocket should be isolated and surrounding area dried prior to chip insertion. **PerioCol-CG** should be grasped using forceps (such that the rounded end points away from the forceps) and inserted into the periodontal pocket to its maximum depth.

One **PerioCol-CG** is moistened with normal saline and inserted into the periodontal pocket. The chip need not be removed at any time after placement since it biodegrades completely. The treatment can be repeated once in three months in pocket measuring more than 5 mm deep. If the placed chip is accidentally fall off within a short duration, a new chip should be inserted.

The product is dispensed and applied only through registered dental practitioners.

Storage

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

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