

A viable alternative to Bovine Collagen

# KolSpon™

## Sterile Collagen Sponge (fish origin)

A cost effective solution for Chronic wounds & Diabetic foot ulcers

### Introduction

Surgeons who treat chronic non-healing ulcers including diabetic ulcers and pressure ulcers etc., face a real challenge when it comes to the closure of the wounds due to inadequacies of conventional treatment protocols and complexities of ulcers. The result is catastrophic and traumatic. Quality of life suffers as many patients get into the stage of amputations especially in the case of diabetic foot ulcers. This is for this reason, useful biomaterials like Collagen play a very important role in the wound management to alleviate the sufferings of millions of victims in this category.

### 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. Collagen as a biomaterial and its role in wound management is a well-documented subject. Collagen encourages wound healing through the deposition and organization of freshly formed fibers and granulation tissues in the wound bed and thus creating a very conducive environment to wound healing.

### Role of collagen in wound healing

- ▶ Stops Bleeding (Hovig et al., 1968)
- ▶ Helps in Wound Debridement by attracting Monocytes (Postlewaithe and Kang, 1976.
- ▶ Provides a Matrix for Tissue and Vascular Growth (Kleinman et al, 1981a)
- ▶ Attracts Fibroblasts and helps in Directed Migration of cells (Dunn and Ebendal, 1978)
- ▶ Binds with Fibronectin, which promotes cell binding (Kleinman et al., 1981b)
- ▶ Supports growth (Marykwas et al., 1989), differentiation and migration (Emerman and Pitelka, 1977) of Keratinocytes
- ▶ Helps in deposition of Oriented and Organized Fibres (Daillion et al, 1984), which increase the integrity of the Tissue.

### Description

**KolSpon** is primarily a Type 1 collagen derived from fish sources available in the form of sponge in different convenient dimensions. It is Gamma Sterilized and supplied in convenient blister packing.

### Salient Features

- ✓ Possessing good absorbing characteristics.
- ✓ Derived from fish sources - No threat of BSE/TSE.
- ✓ Biocompatible as per EN ISO 10993 standards.
- ✓ Non-toxic, non-allergenic, non-immunogenic & non-pyrogenic.

### Indications

- ✓ Non-healing ulcers
- ✓ Diabetic foot ulcers
- ✓ Pressure ulcers
- ✓ Venous ulcers
- ✓ Traumatic wounds
- ✓ Surgical wounds
- ✓ Infected and non-infected wounds
- ✓ Minimally to heavily draining wounds
- ✓ Tunneled and Undermined wounds

**EUCARE**  
the collagen people

# KolSpon™

## Application & User Guide

Select the desired dimension of the sponge depending upon the size and depth of the wound.

Assess, debride and clean the wound according to your protocols.

Treat with medication if necessary.

**KolSpon** may be saturated by immersing in physiological salt solution or an antibiotic solution of the desired concentration. Squeeze the material between two fingers to remove the air bubbles so that the sponge while immersed in the solution will regain its original size and shape almost immediately.

At the time of use, the superfluous solution may be allowed to drip upon a gauze compress and then the saturated sponge is squeezed into the cavity of the wound and held in place by a secondary dressing.

The frequency of change of **KolSpon** will depend upon the condition of the wound and the underlying infection, which has to be decided by the treating Surgeon through regular inspection of the wound and the application is repeated using another sponge of **KolSpon** by replacing the lysed portion of sponge after accurate cleansing and disinfection.

## Precautions & Warnings

- ◆ Wounds may appear larger during the first several days of treatment due to the reduction of edema.
- ◆ An increase in draining of wound may be seen in the first several days of treatment. This is a common wound healing response to the initial use of collagen based wound management products.
- ◆ Treatment of the underlying conditions (Venous or arterial flow, external pressure etc.) as well as nutritional support should proceed concurrently with the use of **KolSpon**.
- ◆ Avoid on patients hypersensitive to Collagen.
- ◆ For getting optimum efficiency of the product, the sponge must be applied after a thorough cleansing of the wound.
- ◆ The product not sterile when the packing is damaged.

## Storage

**KolSpon** can be stored in a dry place at or below 25°C with a shelf life of 3 years from the date of Manufacture and the expiry date is printed on the packaging. Do not use the product after the expiry date.

## Availability

**2.5 x 2.5 cm**  
**2.5 x 5 cm**  
**5 x 5 cm**  
**5 x 7.5 cm**  
**7.5 x 7.5 cm**  
**10 x 10 cm**

For further details please contact:

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*We create and surpass our own standards*