Advanced Care of Acute and Chronic Wounds

HYALC4 Start

Prepares wounds to allow natural healing

Hyaluronic Acid and Collagenase

COMBINED ACTION IN WOUND REPAIR
Hyaluronic acid and collagenase promote healing of chronic wounds and prepare the wound bed

**Hyaluronic acid**
- Creates a moist environment for optimal tissue repair
- Increases proliferation of keratinocytes and fibroblasts and promotes angiogenesis
- Modulates an inflammatory response and improves collagen deposition

**Collagenase from Vibrio algynoliticus**
- Highly purified enzymatic preparation from *Vibrio alginolyticus*
- Degrades fibrin and necrotic tissue contributing to wound bed preparation
- Preserves perilesional skin and healthy tissue
Hyallo4® Start: prepares wounds to allow natural healing

Hyallo4® Start is an ointment for topical application that contains sodium hyaluronate 0.2% from bacterial fermentation and bacterial collagenase derived from non-pathogenic *Vibrio alginolyticus*.

**INDICATIONS**¹: local treatment of chronic wounds such as pressure sores, vascular leg ulcers, and diabetic ulcers

**Advantages**

- **Hyallo4® Start creates a moist environment and prepares the wound bed to promote natural healing**³

- **The collagenase in Hyalo4® Start is 98% pure**⁴. The absence of non-specific proteases ensures a specific action leaving the peri-lesional site intact

- **Hyallo4® Start is very fluid and smooth and is simple to apply, with no discomfort or pain**⁵
Hyalo4® Start: clinically proven efficacy

Double-blind, multicenter, placebo-controlled clinical trial investigating hyaluronic acid-collagenase applied once a day in 155 patients with chronic venous leg ulcers.

Patients with chronic venous ulcers (CEAP6) for <6 months and lesion areas up to 30 cm². Hyaluronic acid + collagenase or placebo were applied once a day. Treatment groups were assessed at baseline and at four clinical study visits, every 7 days, up to a maximum of 30 days.

Hyalo® Start removes devitalized tissue more effectively than the control group after 15 days

Hyalo4® Start promotes the healing process by anticipating the transition to the re-epithelialization phase

MEAN PERCENTAGE DEBRIDEMENT RATE

PROPORTION OF PATIENTS WITH COMPLETE DEBRIDEMENT
Clinically-demonstrated efficacy

Woman, 48-years-old, with persistent lesions for 7 months

RESULTS

Baseline
Lesion total area 10.5 cm²
Devitalized area cm² 6.7 (63.8%)

After 15 days
Lesion total area 5.2 cm²
Devitalized area 0.0 cm²

Final visit (21 days)
Lesion total area 2.8 cm²
Devitalized area 0.0 cm²
In advanced epithelialization stage

Key points

Hyallo4® Start

- Combines the protective effect of hyaluronic acid to improve wound bed preparation with the proteolytic action of collagenase from Vibrio alginolyticus¹,²
- Hyalo4® Start removes devitalized tissue more effectively⁶
- Hyalo4® Start: promotes the healing process by anticipating the transition to the re-epithelialization phase⁶
- Well tolerated and easy to apply⁵
Product description

Hyalo4® Start is a fluid ointment for topical use containing sodium hyaluronate obtained by bacterial fermentation, as the principal component, and bacterial collagenase obtained from a non-pathogenic Vibrio alginolyticus strain, as an incorporated medicinal substance. Hyalo4® Start allows the preparation of the wound bed, thanks to the hydrating properties of hyaluronic acid that promotes the natural repair process and protects the new viable tissue. In fact the process of cicatrization of the lesions takes place more rapidly in a moist environment. The bacterial collagenase assists in the wound bed preparation.

Indications

Local management of chronic ulcers (i.e. pressure sores, vascular ulcers of the legs, diabetic ulcers). In particular, it is intended to provide an optimal moist environment and wound bed preparation that supports the natural healing process.

Advantages

- The Hyalo4® Start collagenase is 99% pure. The absence of aspecific protease entails a totally specific action leaving the perilesional site intact.
- Hyaluronic acid maximises the effectiveness of the collagenase, and stimulates the healing processes which are faster and improved.
- As Hyalo4® Start is so fluid and smooth, it is very simple to apply with no discomfort or pain for the patient.

Mechanism of action

Collagenase from Vibrio alginolyticus is effective towards the native collagen, or type 1 collagen, which is responsible of eschar’s "anchoring" on the bottom of the lesion. HA facilitates the migration of fibroblasts and endothelial cells in the natural process of re-epithelialization. Hyaluronic acid moderates the inflammatory phase, by acting as scavenger of the free radicals and activating a negative feedback. Consequently HA decreases the fibrosis in the remodelling phase.

Composition

Principal component: sodium hyaluronate 0.2%
Other components: collagenase (not less than 2.0 nkat/g of ointment*), light liquid paraffin, white petrolatum.

*The katal (symbol: kat) is the SI unit of catalytic activity. [Nomenclature Committee of the International Union of Biochemistry (NC-IUB) (1979)].