

## **HYALUDENT (with chlorhexidine)**

### **Solution based on sodium hyaluronate for antiseptic treatment of periodontal pockets**

#### **Biological properties of hyaluronic acid**

Among biologically active substances of natural origin special place belongs to hyaluronic acid. The outstanding properties of hyaluronic acid among other substances are based on its chemical structure. Hyaluronic acid has a large water holding capacity - one molecule of hyaluronic acid binds 200-300 water molecules. Together with other proteoglycans hyaluronic acid is a member of the extracellular matrix. Due to its physical and chemical properties such as high viscosity (specific ability to bind water and proteins to form proteoglycan aggregates), hyaluronic acid contributes to the manifestation of numerous functions of connective tissue.

Hyaluronic acid affects the permeability of tissues and the transfer of other medical substances. Hyaluronic acid plays invaluable role not only as an independent medicine, but also as an instrument of slow transfer of other therapeutic agents to the tissues, providing also their controlled release. Biologically active components may be covalently or non-covalently bound to hyaluronic acid. By varying the concentration of hyaluronic acid, it is possible to control the rate of its degradation or diffusion and, therefore, the speed of delivery of a medicine to the tissues. Hyaluronic acid creates a depot of a medicine in the place of application and gradually collapsing frees a medicine, improving its pharmacological profile and preventing the development of possible adverse reactions.

#### **Properties**

"Hyaludent" (with chlorhexidine) contains an antiseptic agent of chlorhexidine. Together with hyaluronic acid chlorhexidine has the most effective antimicrobial action. The mechanism of action is that hyaluronic acid binds a large amount of chlorhexidine and transports it to the tissues, followed by prolonged release of the active substance. At high concentrations of chlorhexidine cytoplasmic contents of the bacterial cell is deposited, leading to the eventual death of the bacteria.

#### **Indications:**

- antiseptic treatment of periodontal pockets after local anti-inflammatory therapy or curettage for more effective tissue repair;
- preventive treatment of postoperative field for effective repair of tissues;
- remedy for better blood microcirculation and metabolism in periodontal tissues;
- therapeutic and prophylactic remedy for infection and inflammatory diseases of periodontal and oral mucosa tissues.

#### **Composition**

Na hyaluronate  
Chlorhexidine  
Trilon B  
Distilled water  
Chlorobenzyl alcohol

#### **Recommended use**

1. Open the bottle with the solution "Hyaludent", put the needle on the syringe and proceed with the aspiration. Release the air from the syringe to prevent embolism. Slightly bend the needle-cannula to the required angle, in order to make the introduction to the periodontal pocket more comfortable. Isolate the treatment area from saliva. Insert the needle-cannula into the pocket to the desired depth, considering that the injected solution is fed into the pocket at a predetermined pressure. Start treatment of periodontal pocket. For more effective action of the solution processing must not be too fast. After the end of treatment follow with further manipulations.

2. Open the bottle with the solution "Hyaludent" and impregnate prepared turunda with it. Gently squeeze out and enter it into the treated periodontal pocket. For more effective action of the solution the processing must not be too fast. After the end of treatment extract turunda and proceed for further manipulation.

Use the tampon impregnated with solution "Hyaludent" for antiseptic and preventive applications in case of infectious and inflammatory periodontal and oral mucosa diseases, as well as for the treatment of postoperative field by one of the traditional methods.

#### **Package contents and storage**

The product is packed in 25 ml bottles.

Material should be stored in a cool dry place

Recommended temperature of storage is +4 to +20°C.

Shelf life is 2 years.