

**ORTHOPAEDICS**

# **KD Intra-Articular® Gel**

Viscosupplementation Solution for Orthopaedics



## ORTHOPAEDIC

# KD Gel Product Line: Features

### Full range

We are proud to present a full range of viscosupplementation for the treatment of osteoarthritis.

### Optimal viscosupplementation

Synovial fluid contains hyaluronic acid that cushions, lubricates and protects joint tissues. KD Intra-Articular® Gel is a superior sterilized viscoelastic solution based on biofermented sodium hyaluronate for intra-articular supplementation that mimicks the human synovial function. A significant range of fill volumes and hyaluronic acid concentrations makes up the widest portfolio on the market today.

### Back to active life

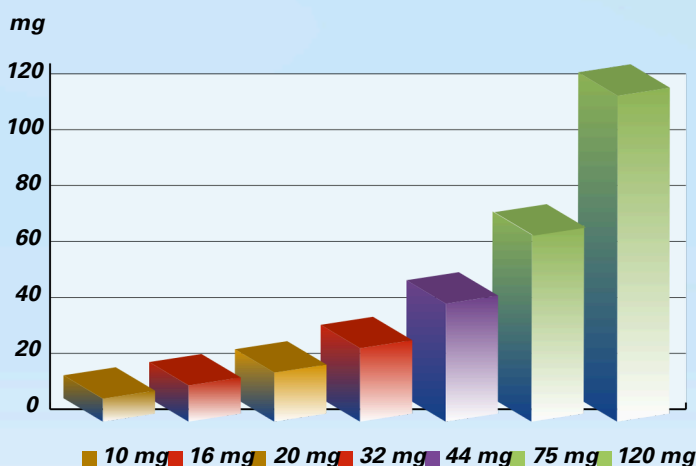
Our goal is to deliver the highest quality products that improve patients' quality of life. To meet this goal we developed our KD Intra-Articular® Gel product line.

### Following international standards

Our product development and manufacturing follows international regulations such as the European Pharmacopoeia and the ISO standards. We guarantee consistent high quality and safety by processing raw material of non-animal origin from established European manufacturers, producing with validated and certified processes, and using only glass syringes and steam sterilization.

## KD Gel Product Line: Concentration and Volume

- Widest product range
- High molecular weight
- Steam sterilization



|                        |     |     |     |     |     |     |     |
|------------------------|-----|-----|-----|-----|-----|-----|-----|
| Concentration (%)      | 1.0 | 1.6 | 1.0 | 1.6 | 2.2 | 2.5 | 2.5 |
| Volume (ml)            | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 3.0 | 4.8 |
| Molecular weight (MDA) | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 2.2 | 2.2 |

# KD Gel Product Line: Advantages and Benefits

## Widest product range

A broad range of concentrations of 1.0 % to 2.5 % combined with volumes of 1.0 ml to 4.8 ml has the advantage of allowing treatment with a perfectly adapted product of following synovial joints: knee, hip, ankle, shoulder, elbow and hand. For all treatment specifications and patient demands, our product is the perfect solution for the most complete, fast and safe improvement of comfort and mobility.

- Products optimized for individualized application
- Designed to treat following synovial joints:  
knee, hip, ankle, shoulder, elbow and hand
- Shock absorbing and optimal lubrication

## Faster pain relieve

The benefits of the KD Intra-Articular® Gel line are faster pain relieve and improved joint function, as well as the slowing of cartilage degeneration, resulting in decreasing need of surgical intervention.



# KD Gel Product Line: Specification



| Specification           | 1.0 %   | 1.0 %   | 1.6 %   | 1.6 %   | 2.2 %   | 2.5 %   | 2.5 %   |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| Sodium hyaluronate      | 10 mg   | 20 mg   | 16 mg   | 32 mg   | 44 mg   | 75 mg   | 120 mg  |
| Molecular weight* (MDa) | 1.6     | 1.6     | 1.6     | 1.6     | 1.7     | 2.2     | 2.2     |
| Viscosity* (mPas)       | 25 000  | 25 000  | 50 000  | 50 000  | 300 000 | 500 000 | 500 000 |
| Osmolality (mOsm/kg)    | 270–400 | 270–400 | 270–400 | 270–400 | 270–400 | 270–400 | 270–400 |
| Storage                 | 2–25 °C | 2–25 °C | 2–25 °C | 2–25 °C | 2–25 °C | 2–25 °C | 2–25 °C |
| pH                      | 6.8–7.4 | 6.8–7.4 | 6.8–7.4 | 6.8–7.4 | 6.8–7.4 | 6.8–7.4 | 6.8–7.4 |
| Volume (ml)             | 1.0     | 2.0     | 1.0     | 2.0     | 2.0     | 3.0     | 4.8     |
| Shelf life (months)     | 42      | 42      | 42      | 42      | 42      | 42      | 42      |

\*mean value after steam sterilization

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