# HIGH MOLECULAR WEIGHT

# SHOCK **ABSORBER**



# **Used to prevent pain and** motion limitation caused by osteoarthritis for all synovial joints

### Reviscon 20 mg

The ideal concentration for OA treatment

**20 mg HA (1.0%)** in 2 ml solution **3-5 injections** with one week intervals Bacterial fermentation 3.0 M Da molecular weight 35,000 mPa.s viscosity



# **Reviscon Plus 32 mg**

To meet the highest expectations with a medium concentration of sodium hyaluronate

**32 mg HA (1.6%)** in 2 ml solution **1-3 injections** with one week intervals Bacterial fermentation 3.0 M Da molecular weight 250,000 mPa.s viscosity



# **STRUCTURED NaHA Pattern**



# **VISCOSITY**

**Excellent Rheological** 

Pattern

Shear Rate y [mPa.S]

mobility.

# **MOLECULAR WEIGHT**

# **CONCENTRATION**

# One of the highest molecular weight



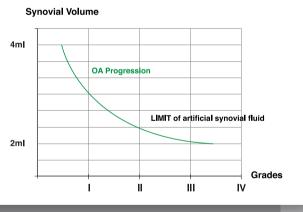


## Excellent rheological profile is designed for greater zero shear viscosity resulting in efficient pain relief and dynamic elasticity at higher shear rates for enduring

Reviscon Line contains one of the highest molecular weight of sodium hyaluronate with unique cohesive energy characteristics. With longer chain of HA Reviscon Line Provides:

- Better shock absorbtion - High lubrication
- Long-lasting efficiency

# Well designed concentrations



Reviscon Line offers a range with 2.0 ml and 2.4 ml solutions. - No pressure in the joint

- No side effects or swelling Reviscon Line provides high impact on optimum

volume

Single Injection

# with STRUCTURED NaHA PATTERN



**Excellent high viscosity for long-lasting** efficiency by single injection

**48 mg HA (2.0%)** in 2.4 ml solution 1 injection Bacterial fermentation

3.0 M Da molecular weight 900,000 mPa.s viscosity









Intra-articular **Injection Line** 





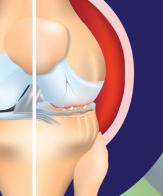
# The Solution For Multiple Requirements

Helps to increase the impaired viscosity and lubrication properties of joint fluid. (1,2)

Helps to increase cartilage flexibility and endurance against

Helps in rebuilding by the contribution nyaluronic acid. (4)

Helps to inhibit the free oxygen radicals and



Helps in absorption of mechanical shocks by barrier on synovial membrane and joint

Helps to decrease joint

fluid production acid on synovial tissue.<sup>(4</sup>

Reviscon 1.0%, 20 mg

synovial fluid.

Properties and efficacy:

intra-articular injections.

Reviscon 1.0% viscoelastic sodium hyaluronate solution for intra-articular injection.

Each product consists of 2.0 ml of viscoelastic solution in a single-use glass syringe for intra-articular use.

Reviscon is sterile, non-pyrogenic, clear, non-inflammatory, highly

purified sodium hyaluronate of high molecular weight, dissolved in

Reviscon is a product for the relief of the pain and stiffness of the

and traumatic changes to the synovial joint. Reviscon has a pH of

a buffered physiological saline solution. The highly-purified

sodium hyaluronate is obtained from bacteria by fermentation.

knee joint and other synovial joints in patients with degenerative

6.8 to 7.6 and osmolality of 300 to 350 mOsm/kg, similar to the

All synovial joints especially the weight -bearing joints, contain

viscoelastic sodium hyaluronate. This substance has lubrication

disease (osteoarthritis), the viscoelasticity of the synovial fluid is

significantly impaired, causing the mechanical stress on the joint

and the breakdown of the articular cartilage to greatly increase

administration of high purity sodium hyaluronate, which has very

product reduce pain and improve joint mobility. This effect may

Reviscon is indicated for the treatment of pain in osteoarthritis

(OA) of the knee in patients who have failed to respond adequately to conservative non-pharmacological therapy and

simple analgesics (e.g. acetaminophen(paracetamol)).

Do not administer to patients with known hypersensitivity to

contraindicated in cases of present infections or skin diseases in

2 Do not reuse

Do not resterilize

STERBLE | Sterilized using steam (Product)

Consult instructions for use

hyaluronate preparations. Intra-articular injections are

good viscoelastic properties, can improve the quality of the joint's

lubrication. The lubrication and shock absorbing properties of this

last for several months following recommended treatment cycle of

resulting in limited and painful joint movement. Intraarticular

and shock absorbing properties, allowing these joints to move

normally and painlessly. In patients with degenerative joint

- 1.0 ml of Reviscon 1.0% contains 10.0 mg sodium hyaluronate, sodium chloride, disodium hydrogen phosphate, sodium dihydrogen phosphate and water for injection.

### Reviscon Plus 1.6%, 32 mg

Reviscon Plus 1.6% viscoelastic sodium hyaluronate solution for intra-articular injection.

Each product consists of 2.0 ml of viscoelastic solution in single-use glass syringe for intra-articular use.

- 1.0 ml of Reviscon Plus 1.6% contains 16.0 mg sodium hyaluronate, sodium chloride, disodium hydrogen phosphate, sodium dihydrogen phosphate and water for injection.

the area of the injection site to reduce the potential for developing

Following the use Reviscon, patients may experience local

symptoms in the joint being treated (pain, sensation of heat,

in rare cases skin rash, aseptic joint effusions, pruritus and

muscular cramps. Further adverse events that have been

shock, hemarthrosis, phlebitis, pseudosepsis, severe acute

inflammatory reaction (SAIR), nasopharyngitis, joint stiffness,

- Reviscon is intended for single use only. The reuse of the

the immunological and other potential risks that can be

associated with the injection of any biological material.

risk of contamination and infection of the patient.

- Do not use if package is damaged or opened.

Do not use after the expiry date printed on the pack.

product creates a potential infection risk for patients or users.

- Sodium hyaluronate is manufactured by bacterial fermentation

and rigorously purified. However the physician should consider

- Do not reuse syringe. Any repeat usage of the syringe carries a

- Do not re-sterilize the pre-filled syringe. Performance will be

- In order to avoid overuse of treated joints patients should be advised to relative rest (but no immobilisation) for 24h after each

- Dispose of the syringe and cannula in accordance with

accepted medical practice and applicable national, local and

- There is no evidence concerning the safety of Reviscon in human

pregnancy, lactation and the children under 18 years of age. Administration

during pregnancy and lactation is at the discretion of the doctor.

tendonitis, bursitis, fever and myalgia.

Warnings and Precautions:

injection.

institutional requirements.

Caution

\* Keep dry

※ Keep away from sunlight

Do not use if package is damaged

reddening and swelling). The following adverse events have

been reported for similar products: mild or moderate arthralgia,

### Reviscon Mono 2.0%, 48 mg

Reviscon Mono 2.0% viscoelastic sodium hyaluronate solution for intra-articular injection.

Each product consists of 2.4 ml of viscoelastic solution in a single-use glass syringe for intra-articular use.

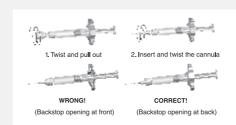
- 1.0 ml of Reviscon Mono 2.0 % contains 20.0 mg sodium hvaluronate, sodium chloride, disodium hvdrogen phosphate. sodium dihydrogen phosphate and water for injection.

### Interaction with other agents:

Sodium hyaluronate is incompatible with quaternary ammonium compounds such as benzalkonium chloride solutions. Therefore, Reviscon pre-filled syringes must never come into contact with surgical instruments rinsed with these solutions.

FOR INTRAARTICULAR INJECTION, FOR SINGLE USE ONLY.

Reviscon should only be used by a physician for intra-articular observed in very rare cases are: allergic reactions, anaphylactic injection. Use an appropriate size of the needle (19 to 20 gauge is recommended) and length of the needle depending on the joint to be treated. The administration periods vary due to the concentration of products. Multiple joints may be treated simultaneously and treatment cycles may be repeated. In order to avoid intra-articular infection strict aseptic injection technique has to be applied. It is recommended that an ice-pack be placed on the joint undergoing treatment for 5-10 minutes in order to prevent pain and swelling. In the case of effusion accompanied by severe pain the fluid must be removed from the affected joint.

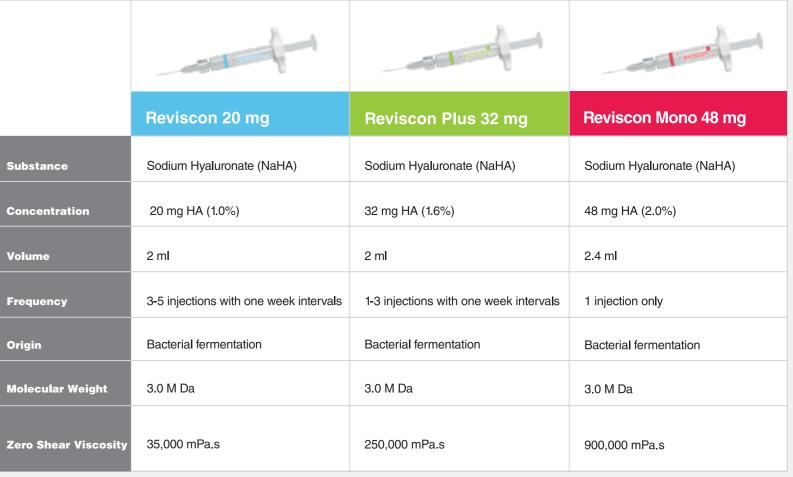


Store Reviscon between 2°C and 25°C. Protect from light and shocks. Do not freeze.

### VSY Biotechnology BV

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# High molecular weight NaHA Line



www.reviscon.net

