Reviscon the pain relief





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

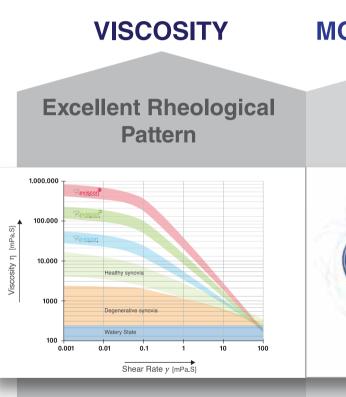
Reviscon 20ma

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



STRUCTURED NaHA Pattern



Reviscon Plus 32mg

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



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







MOLECULAR WEIGHT

CONCENTRATION

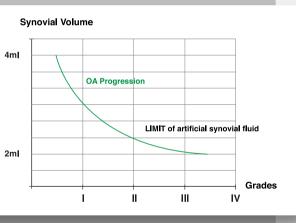
One of the highest molecular weight



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

Reviscon Mono 48mg

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



treatment Sodium









Hyaluronate **High Moleculer** Weight NaHA







Multiple requirements - one solution: **REVISCON**

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

Keviscon

Helps to increase cartilage flexibility and endurance against damages.⁽²⁾

Helps in rebuilding of the barrier that protects the synovial membrane and articular surface, by the contribution of hyaluronic acid.⁽⁴⁾

Helps to inhibit the free oxygen radicals and matrix metalloproteinases by acting on synovial permeability.^(1.2) Helps in absorption of mechanical shocks by forming a protective barrier on synovial membrane and joint surface.^(1,2)

Helps to decrease joint effusion.^(2,3)

Helps to normalize synovia fluid production by the action of hyaluronic acid on synovial tissue.⁽⁴⁾

Reviscon 1.0%, 20mg

Product:

Reviscon 1.0% viscoelastic sodium hyaluronate solution for intraarticular injection.

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

- 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.

Description

Reviscon is sterile, non-pyrogenic, clear, non-inflammatory, highly purified sodium hyaluronate of high molecular weight, dissolved in a buffered physiological saline solution. The highly-purified sodium hyaluronate is obtained from bacteria by fermentation. Reviscon is a product for the relief of the pain and stiffness of the knee joint and other synovial joints in patients with degenerative and traumatic changes to the synovial joint. Reviscon has a pH of 6,8 to 7.6 and osmolality of 300 to 350 mOsm/kg, similar to the synovial fluid.

Properties and efficacy:

All synovial joints especially the weight –bearing joints, contain viscoelastic sodium hyaluronate. This substance has lubrication and shock absorbing properties, allowing these joints to move normally and painlessly. In patients with degenerative joint 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 resulting in limited and painful joint movement. Intraarticular administration of high purity sodium hyaluronate, which has very good viscoelastic properties, can improve the quality of the joint's lubrication. The lubrication and shock absorbing properties of this product reduce pain and improve joint mobility. This effect may last for several months following recommended treatment cycle of intraarticular injections.

Indications:

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 pharmacologic therapy and simple analgesics (e.g.,acetaminophen(paracetamol)).

Contraindications:

Do not administer to patients with known hypersensitivity to hyaluronate preparations. Intraarticular injections are contraindicated in cases of present infections or skin diseases in

Symbols		Manufacturer
	8	Do not reuse
	×.	Do not resterilize
STERLE		Sterilized using steam (Product)
	STERILE EO	Sterilized using ethylene oxide (Packaging)

Reviscon Plus 1.6%, 32mg	Reviscon Mono 2.0%, 48mg
Product:	Product:
Reviscon Plus 1.6% viscoelastic sodium hyaluronate solution for	Reviscon Mono 2.0% viscoelastic sodium hyaluronate solution for
intraarticular injection.	intraarticular injection.
Each product consists of 2.0 ml of viscoelastic solution in single-use glass syringe for intraarticular use.	Each product consists of 2.4 ml of viscoelastic solution in a single-use glass syringe for intraarticular use.
 1.0 ml of Reviscon Plus 1.6% contains 16.0 mg sodium	 1.0 ml of Reviscon Mono 2.0 % contains 20.0 mg sodium
hyaluronate, sodium chloride, disodium hydrogen phosphate,	hyaluronate, sodium chloride, disodium hydrogen phosphate,
sodium dihydrogen phosphate and water for injection.	sodium dihydrogen phosphate and water for injection.

the area of the injection site to reduce the potential for developing septic arthritis.

Side Effects:

Following the use Reviscon, patients may experience local symptoms in the joint being treated (pain, sensation of heat, reddening and swelling). The following adverse events have been reported for similar products: mild or moderate arthralgia, in rare cases skin rash, aseptic joint effusions, pruritus and muscular cramps. Further adverse events that have been observed in very rare cases are: allergic reactions, anaphylactic shock, hemarthrosis, phlebitis, pseudosepsis, severe acute inflammatory reaction (SAIR), nasopharyngitis, joint stiffness, tendonitis, bursitis, fever and myalgia.

Warnings and Precautions:

Reviscon is intended for single use only. The reuse of the product creates a potential infection risks for patients or users.
Sodium hyaluronate is manufactured by bacterial fermentation and rigorously purified. However the physician should consider the immunological and other potential risks that can be associated with the injection of any biological material.
Do not reuse syringe. Any repeat usage of the syringe carries a risk of contamination and infection of the patient.
Do not re-sterilize the pre-filled syringe. Performance will be impaired.

Do not use if package is damaged or opened.
Do not use after the expiry date printed on the pack.
In order to avoid overuse of treated joints patients should be advised to relative rest (but no immobilisation) for 24h after each injection.

 Dispose of the syringe and cannula in accordance with accepted medical practice and applicable national, local and institutional requirements.

 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.

li	Consult instructions for use

\land Caution

- ✗ Keep away from sunlight
- 🔶 Keep dry
- ,,
- g) Do not use if package is damaged

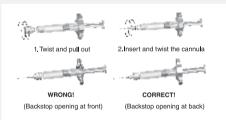
Interaction with other agents:

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.

Dosage and Administration:

FOR INTRAARTICULAR INJECTION. FOR SINGLE USE ONLY.

Reviscon should only be used by a physician for intraarticular 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 varies 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



Storage:

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

VSY Biotechnology BV

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High moleculer weight NaHA Line

	Contraction (- overseen -	
	Reviscon 20mg	Reviscon Plus 32mg	Revisco
stance	Sodium Hyaluronate (NaHA)	Sodium Hyaluronate (NaHA)	Sodium H
centration	20mg HA (1.0%)	32mg HA (1.6%)	48mg HA
ime	2ml	2ml	2.4ml
luency	3-5 injections with one week intervals	1-3 injections with one week intervals	1 injectior
in	Bacterial fermentation	Bacterial fermentation	Bacterial 1
ecular Weight	3.0 M Da molecular weight	3.0 M Da molecular weight	3.0 M Da
) Shear Viscosity	35.000 mPa.s viscosity	250.000 mPa.s viscosity	900.000 n



