

Love your Joints! ORTHOFLEX gel



*Intra articular injection for the treatment of osteoarthritis.
New injection for restoration of articular cartilage.
Regenerative cartilage.
Natural ingredients for joint pain
and for cartilage degeneration prevention.*

ORTHOFLEX gel:

Love your joints!

- New injection with natural ingredients to restore articular cartilage.
- Regenerative cartilage
- Solution for injection in a pre-filled syringe.

What is ORTHOFLEX gel?

ORTHOFLEX gel is a bio- matrix in the form of a sterile ,viscoelastic solution consisting of highly purified cross linked biopolymers ,sodium hyaluronate and chondroitin sulfate and n-acetylglucosamine.

INDICATIONS:

- ORTHOFLEX gel is indicated as a viscoelastic supplement or a replacement for synovial fluid in human joints .
- ORTHOFLEX gel is indicated for symptomatic treatment of non-inflammatory degenerative diseases of synovial joints , such as knee osteoarthritis.
- The actions of ORTHOFLEX gel are lubrication and mechanic support.

EFFECTS AND MODE OF ACTION:

A single injection of orthoflex gel relieves long term pain, help improve the movement of joints and protects the cartilage. The unique combination between Glucosamine, chondroitin with hyaluronic acid can provide a complete product for maintaining healthy Joints.

These three closely related compounds are components of glycoaminoglycans (GAGS) found in articular cartilage.

Hyaluronic acid is major component of the synovial fluid and cartilage and thanks to its viscoelastic and rheological properties is responsible of the lubrication and cushioning in joints. It decreases friction between joint surface and protects soft tissue from trauma by acting as a shock absorber. It provides not only special protective properties between the joints but also movement of the joints fluid itself, transport nutrients and help reduce inflammation within the joints.

COMPOSITION:

- Sodium hyaluronate =36 mg/ 2,25 ml
- Chondroitin sulfate = 67,5 mg/2,25 ml
- N-acetylglucosamine = 67,5 mg,2,25 ml

EFFECTS AND MODE OF ACTION:

The quantity and quality of **hyaluronic acid** in the synovial fluid are reduced in the patients who have osteoarthritis because its synthesis by the synovial and cartilage cells is disturbed. The protection of articular surface thus is strongly altered, the cartilage becomes vulnerable and exposed to structural degradations due to the forces of friction and compression.



Chondroitin sulfate is another natural substance found in the body. Chondroitin sulfate glycosaminoglycan, is an important structural component of the extracellular cartilage matrix. The role of chondroitin sulfate is to optimize the rheological behavior of hyaluronic acid, due to specific interactions. It prevents other body enzymes from degrading the building blocks of joint cartilage. Chondroitin sulfate also inhibits proinflammatory factors secretion. These data support the observed clinical activity as a symptomatic slow-acting for osteoarthritis with pain improvement and enhancement function. Glucosamine is found naturally in the body. It stimulates the formation and repair of articular cartilage.

Together with the chondroprotective effect of hyaluronic acid, N- acetylglucosamine which has stimulatory effect on hyaluronic acid synthesis in human articular chondrocytes and synovial fibroblast inhibits nitric oxide which in turn reduce apoptosis in cultured human chondrocytes. Chondroitine sulfate can also reduce apoptosis of chondrocytes via mitochondrial pathway.

ORTHOFLEX gel, administered as a single injection, restores good lubrication and shock absorption in the joint, and will provide significant improvement of symptoms.

How do glucosamine sulfate and chondroitin sulfate work?

Glucosamine and chondroitine are 2 molecules that make up the type of cartilage found within joints. Joints affected by DJD (degenerative joint diseases) show joint space narrowing.

This is a decrease in the thickness of the cartilage around the ends of the bones. Cartilage is made by cells called chondrocytes. As we age, the chondrocytes produce less cartilage. Glucosamine sulfate increases production of cartilage, stimulates the chondrocytes to manufacture more cartilage and to replace unhealthy cartilage with fresh, healthy cartilage. Healthy cartilage, in turn, allows more good nutrients to reach the chondrocytes, and thus continue the cycle of creating more healthy cartilage. Glucosamine sulfate also inhibits the breakdown of cartilage. Chondroitin sulfate, help the joints, by increasing the viscosity and amount of joint fluid (hyaluronic acid), inhibiting the breakdown of cartilage, and reducing joint inflammation. Glucosamine is considered to be very safe and when combined with chondroitine and hyaluronic acid is a properly balanced formula can be very effective at treating joint pain.

Administration: Must be administered strictly intra-articular, 2 treatment per year every 6 month according to the doctors recommendations.

Love your joints!

Be responsible, respect yourself and prevent the degradation of cartilage using ORTHOFLEX hyaluronic acid. Thanks for your interest in our products and service. Keep in touch!

Quality: * ORTHOFLEX gel is produced according to Good Manufacturing Practice (GMP) and ISO13485 being certified as a system with high quality ingredients, CE marked medical device being in accordance with the European Directive 93/42/EE