

CombiMAX

Sodium hyaluronate 36 mg/2.25 ml, chondroitin sodium sulfate 67.5 mg/2.25 ml and N-acetylglucosamine 67.5 mg/2.25 ml, solution for injection in pre-filled syringe.

For intra-articular injection

DESCRIPTION:

CombiMAX is a bio-matrix in the form of a sterile, viscoelastic solution consisting of two highly purified cross-linked biopolymers, sodium hyaluronate and chondroitin sodium sulfate, and N-acetylglucosamine (NAG), a naturally amino sugar.

CombiMAX contains sodium hyaluronate derived from bacterial fermentation of a Streptococcus strain, chondroitin sodium sulfate sourced from bovine cartilage, and NAG sourced from chitin, a long-chain polymer of N-acetylglucosamine.

CombiMAX is a sterile viscoelastic solution

processed by aseptic technique and supplied in a disposable glass syringe delivering 2.25 mLof solution. COMPOSITION:

Each pre-filled syringe contains sodium

hyaluronate 36 mg, chondroitin sodium sulfate 67.5 mg, N-acetylglucosamine 67.5 mg, sodium chloride, sodium dihydrogen phosphate monohydrate, disodium phosphate dodecahydrate, sodium hydroxide and/or hydrochloric acid (for pH adjustment), and water for injections.

CombiMAX is indicated as a viscoelastic

INDICATIONS:

supplement or a replacement for synovial fluid in human knee joint. CombiMAX is indicated for symptomatic treatment of knee osteoarthritis. The actions of CombiMAX are lubrication and mechanical support. CONTRAINDICATIONS:

CombiMAX is contraindicated in patients with:

known allergy (hypersensitivity) to sodium hyaluronate, chondroitin sulfate,

- N-acetylglucosamine or to any components of CombiMAX pre-existing infections or skin diseases in the area of the intended injection site
- known infection of the index joint known systemic bleeding disorders,

bleeding or tendency to bleeding

CombiMAX may contain trace amounts of

gram-positive bacterial proteins and is

contraindicated for patients with a history of

such allergies. CombiMAX should not be used in patients with known allergy to derived bovine material.

CombiMAX should not be used in patients with known allergy to material derived from shrimps, crabs or seafoods.

sodium sulfate and N-Acetylglucosamine are biological components, the physician should

WARNINGS AND PRECAUTIONS:

Although sodium hyaluronate, chondroitin

be aware of the potential allergic risks inherent in the use of any biological material. General precautions should be observed for the intra-articular injection administration.

CombiMAX should be administered in the

synovial knee joint space only by medical professionals trained in intra-articular administration technique. An excess-amount of CombiMAX-is not to be used and the patient should be monitored closely. The intra-articular space should not be overfilled. If pain increases during the

injection procedure, the injection should be

Patients should be carefully examined prior

stopped and the needle withdrawn.

to administration to determine signs of acute inflammation, and the physician should evaluate whether CombiMAX treatment should be initiated in this case. Patients experiencing abnormal sequelae

after intra-articular administration of Combi-

MAX should consult with a physician imme-

have not been established in children and adolescents, pregnant or lactating women. As no clinical evidence is available on the

use of sodium hyaluronate and chondroitin

sodium sulfate in patients with concomitant

inflammatory arthropathy (such as rheuma-

The safety and effectiveness of CombiMAX

toid arthritis, gouty arthritis), recent orthopedic surgery or trauma at the index joint, the treatment with CombiMAX is not recommended in these patients. There were few case reports of increased INR (International Normalised Ratio) in patients

receiving concomitant warfarin and glucosamine - chondroitin supplements. Due to limited information, caution is advised regarding the CombiMAX administration in patients taking anticoagulants or antiplatelet agents. Exacerbation of asthma symptoms after initiation of glucosamine supplements have been described (symptoms resolved after

tial worsening of symptoms. Verify the expiry date and the integrity of the packaging before use. Do not use Combi-MAX after the "Use by date" shown on the Do not use the syringe if its seal is opened or

withdrawal of glucosamine), therefore,

asthmatic patients should be aware of poten-

After opening, the contents of the syringe should be used immediately. The product CombiMAX is for single use!

The product is administered only if the

damaged.

solution is clear.

CombiMAX is intended to be used once only for a single patient. The used needle and syringe must be discarded after injection and

Do not re-use. Each pre-filled syringe of

should not be kept for other administrations. Re-use of needles or syringes already used can lead to the transmission of infectious agents (including HIV and hepatitis). Do not resterilize, as this may damage or alter the product.

UNDESIRABLE SIDE EFFECTS: Intra-articular injection of CombiMAX can cause local undesirable side effects. Local symptoms as transient pain in the joint,

transient swelling, heat feeling and redness have occasionally been observed following intra-articular injection of hyaluronate preparations. Such effects can be minimized by applying a Cases of acute inflammation characterized by joint pain, swelling, effusion and sometimes joint warmth and/or stiffness, have been reported following an intra-articular injection with hyaluronic acid. Analysis of synovial fluid reveals aseptic fluid with no crystals. This reaction often responds within a few days to treatment with Non Steroidal Inflammatory Drugs (NSAIDS), intraarticular steroids and/or arthrocentesis. Clinical benefit from the treatment may still be apparent after such reactions.

procedure of injecting substances into joints in general, primarily infections and bleeding. DOSAGE AND ADMINISTRATION:

There are minimal risks associated with the

intra-articular. Do not inject the product extra-articularly. Do not administer intravenously.

Strict aseptic administration technique must be followed.

(70% alcohol or with another disinfectant). Do not concomitantly use disinfectants containing quaternary ammonium salts for skin preparation because hyaluronic acid can precipitate in their presence.

injecting CombiMAX. Arthrocentesis prior to injection is recommended.

Remove joint effusion, if present, before

visible seal and remove the cap of the prefilled syringe. Attach to the syringe a sterile hypodermic needle with the appropriate size (gauge) and length (inch), and make sure you have it properly fixed by turning it slightly. Common needle gauges for injections into the knee are 18 - 21 gauge (1 .2 - 0.8 mm).

Do not overfill the synovial space. It is the physician's responsibility to determine the appropriate volume and ensure that the joint is not overfilled.

Injection of subcutaneous lidocaine or similar anesthetic may be recommended prior to injection of CombiMAX.

any strenuous activities or prolonged (i.e., more than an hour) weight-bearing activities such as jogging or tennis within the 48 hours that follow the intra-articular injection. CHARACTERISTICS AND MODE OF ACTION:

established treatment in knee osteoarthritis

consisting in injecting a hyaluronic acid based solution into the affected synovial joint. CombiMAX acts as a temporary replacement and supplement for synovial CombiMAX relieves joint pain, improves articular mobility and protects cartilage.

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

Hyaluronic acid is a major component of the

surfaces and protects soft tissue from trauma by acting as a shock absorber. 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

surfaces thus is strongly altered, the cartilage becomes vulnerable and exposed to structur-

al degradations due to the forces of friction and compression. Chondroitin sulfate, a 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. Furthermore, in in vitro studies, chondroitin

sulfate inhibits the main enzymes involved in

destruction of the cartilaginous matrix:

Chondroitin sulfate also inhibits proinflam-

and

aggrecanases.

metalloproteinases

matory factors secretion. These data support the observed clinical activity as a symptomatic slow-acting for osteoarthritis with pain improvement and enhancement function. N-acetylglucosamine significantly enhances the prevention of joint damage. Together with the chondroprotective effect of acid,

cultured human chondrocytes. Chondroitin sulfate can also reduce apoptosis of chondro-CombiMAX, administered as a single injection, restores good lubrication and shock absorption in the knee joint, and it will provide significant improvement symptoms. Viscosupplementation with hyaluronic acid

is an effective and well tolerated treatment

for knee osteoarthritis. Viscosupplementa-

tion is a well tolerated treatment of other

joints osteoarthritis but a consensus position

at the world-wide level was not reached until

now for the efficacy of viscosupplementation with hyaluronic acid for other joints osteoarthritis than knee osteoarthritis. HOW SUPPLIED: Each pre-filled syringe of CombiMAX contains 2.25 ml of a sterile viscoelastic solution of sodium hyaluronate 36 mg, chondroitin sodium sulfate 67.5 mg and

CombiMAX is a medical device. To be used

prefilled syringe and Instructions for use.

N-acetylglucosamine 67.5 mg.

SHELF LIFE AND STORAGE: Store at a temperature of 15 - 25°C, in the

original package, in order to protect from

CombiMAX must be administered strictly

It is recommended to administer two treatment cycles per year, every 6 months, according to the doctor's recommendations.

Injection site must be properly disinfected

Remove the pre-filled syringe from the package. Before administration, break the

The final needle selection for any intra-articular procedure is determined by the physician.

As with any invasive joint procedure, it is recommended that the patient should avoid

CombiMAX is a product for viscosupplementation, which is a safe, effective and well

fluid.

is disturbed. The protection of articular

Hyaluronic N-acetylglucosamine which has stimulatory effect on hyaluronic acid synthesis in human articular chondrocytes and synovial fibroblasts inhibits nitric oxide, cyclooxygenase-2 (COX-2), and IL-6 production, which in turn reduce apoptosis in cytes via mitochondrial pathway.

under the direction of a physician.

CombiMAX is available in carton box containing: one blister with a single-use

light.

Do not freeze. Date of approval of the text: April 2019



cold pack on the joint or by using medication such as painkillers for 24 hours after the injection. They usually disappear in a short

VEMAቖ PHARMA

S.C. ROMPHARM COMPANY S.R.L. 1A Eroilor Street, Otopeni, 075100 Ilfov, Rumunija Authorized representative of the manufacturer in the Republic of Serbia:/Ovlašćeni predstavnik proizvođača u Republici Srbiji: VEMAX011 PHARMA DOO BEOGRAD -C € 0050 VOŽDOVAC, Mosorska 9, 11042 Beograd, Srbija Number of the decision on the registration of the medical device:/Broj rešenja o registraciji medicinskog sredstva:

Manufacturer:/Proizvođač:

515-02-01066-23-002 od: 09.06.2023.



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