

For a More
Active Life



ORTHOCART

www.klcbio.com.tr

WHAT IS ORTHOART™

Each injection delivers highly purified hyaluronic acid to the human joint disorders such as osteoarthritis.

- Orthoart™, is intended for the treatment of symptoms of human joint disorders such as osteoarthritis.
- Orthoart™ is indicated for viscoelastic replenishment or replacement of synovial fluid in human joints.
- Reduced joint pain and stiffness for up to 6 months.



TREATMENT WITH ORTHOART™

The product should be administered according to the frequency determined by the physician, according to the recommended frequency decision, such as 6-8-12 months. The number of injections is decision you and your doctor need to make.

WHEN SHOULD YOU NOT TAKE ORTHOART™ ?

Orthoart™, should not be inject in patients with known sensitivity to any of the ingredients contained in product.

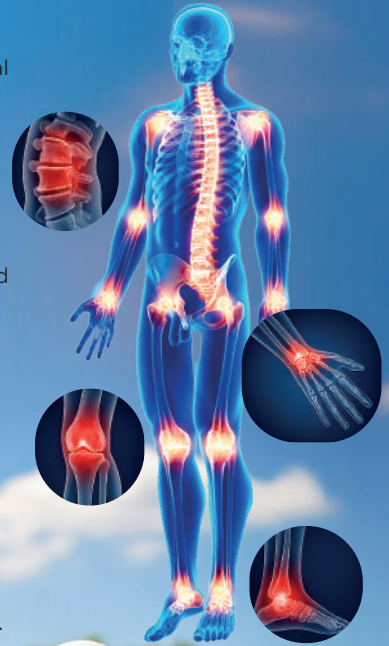
Orthoart™, should not be inject in patients with pre-existing infections of the skin in the region of the intended injection site.

Orthoart™, should not be administered known systemic bleeding disorders and known infection of the index joint and infected and inflamed joints Orthoart™ may contain trace amounts of gram positive bacterial proteins so should not be administered patients with a history of such allergy.

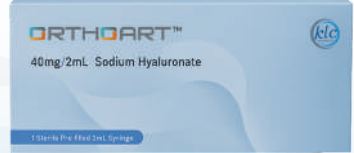
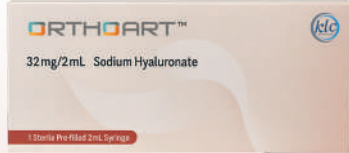


WHAT IS OSTEOARTHRITIS(OA) OF THE KNEE?

- Osteoarthritis (OA) is known as the most common chronic disease of the cartilage. As the cartilage breaks down due to wear-and-tear and/or mechanical stress, it causes swelling, pain and inflammation, leading to extracellular matrix (ECM) loss.¹
- Knee osteoarthritis (KOA) is a progressive joint disease that often involves intra- and per articular structures² and is considered pathology characterized by articular cartilage lesions, synovitis, subchondral sclerosis, and osteophytes³.
- Knee osteoarthritis (OA) is most often a slowly progressive joint disorder characterized by cartilage degeneration and inflammation⁴. Knee OA commonly results in knee pain and decreases patients' mobility (e.g. walking and stair climbing)⁵.
- The pain of osteoarthritis is usually related to activity. For osteoarthritis of the knee, activities such as climbing stairs, getting out of a chair, and walking long distances bring on pain. Morning stiffness usually lasts less than 30 minutes⁶. Patients often note that their knees "give way," a so-called instability symptom.



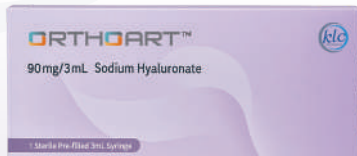
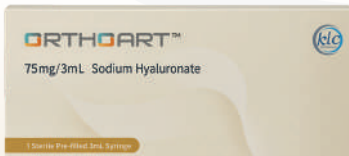
ORTHOART™



Content	1.5% High Purity Hyaluronic Acid	2.0% High Purity Hyaluronic Acid
HA Content	32 mg	40 mg
Volume	2 mL	2 mL



Content	2.4% High Purity Hyaluronic Acid	2.4% High Purity Hyaluronic Acid
HA Content	48 mg	60 mg
Volume	2 mL	2.5 mL



Content	2.5% High Purity Hyaluronic Acid	3.0% High Purity Hyaluronic Acid
HA Content	75 mg	90 mg
Volume	3 mL	3 mL

WHAT IS THE RISK FACTORS FOR OSTEOARTHRITIS?

- Age is one of the most risk factors⁷
- Biological age-related changes in the joint structures⁷
- Female sex (knee OA)⁸
- Obesity (knee OA)⁸
- Previous knee injury (knee OA)⁸
- Knee malalignment (knee OA)^{9,10}
- knee extensor muscle weakness (knee OA)¹¹
- Cam deformity and mild dysplasia (especially in the middle aged (55–65 years), but not in the older population (older 65 years)) (hip OA)¹²
- Severe dysplasia (hip OA)



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