

A TAILORED APPROACH FOR LONG TERM RELIEF IN OSTEOARTHRITIS





Hyaluronic acid 1% (20 mg/2 mL) 2 mL pre-filled syringe 3-5 injections





Hyaluronic acid 2% (40 mg/2 mL) 2 mL pre-filled syringe 1-3 injections





Hyaluronic acid 1% (10 mg/1 mL) 1 mL pre-filled syringe 1-3 injections







References

1. Cross M, Smith E, Hoy D, Nolte S, Ackerman I, Fransen M, et al. The global burden of hip and knee osteoarthritis: estimates from the Global Burden of Disease 2010 study. Ann Rheum Dis. 2014;73(7):1323-30. 2. Tehranzadeh J, Booya F, Root J. Cartilage metabolism in osteoarthritis and the influence of viscosupplementation and steroid: a review. Acta Radiol. 2005;46(3):288-96.

3. Legré-Boyer V. Viscosupplementation: Techniques, indications, results. Orthop Traumatol Surg Res. 2015;101(15):S101-S8.

4. Fraiman S, Aparicio R. [Evaluation of two intra-articular hyaluronic acid preparations in the treatment of osteoarthritis of the knee]. Evaluación de dos preparaciones intra-articulares de ácido hialuronico en el tratamiento de la osteoarthritis de rodilla. Rev Argent Gerontol Geriatr. 2002;22:15-20. Spanish.

5. Uebelhart D, Berz S. Safety and efficacy of fermentative hyaluronan in knee osteoarthritis: a retrospective study. Osteoarthritis Cartilage. 2003;11(Suppl A):S80. Abstract No.: P223.

6. Mathies B, Berger J, Siegfried C, Gurny R. Effects of Ostenil in delaying total knee replacement. An open, pilot, phase III study. ICRS Abstract Book. 2004. Abstract No.: 397.

7. Tsvetkova ES, Denisov L, Shmidt El, Ryabitseva O, Anikin S. Efficacy and safety of sodium hyaluronate in hip osteoarthritis. A randomised doubleblind, lidocaine-controlled, multicentre study with a 12-month follow-up. Ann Rheum Dis. 2010;69(Suppl 3):281. Abstract No.: THU0411.

8. Dernek B, Duymus TM, Koseoglu PK, Aydin T, Kesiktas FN, Aksoy C, et al. Efficacy of single-dose hyaluronic acid products with two different structures in patients with early-stage knee osteoarthritis. J Phys Ther Sci. 2016;28(11):3036-40.

9. Funk L. Ostenil hyaluronan for inoperable arthritis of the shoulder. Osteoarthritis Cartilage. 2004;12(Suppl B):S140. Abstract No.: P338. 10. Pons M, Alvarez F, Solana J, Viladot R, Varela L. Sodium hyaluronate in the treatment of hallux rigidus. A single-blind, randomized study. Foot Ankle Int. 2007;28(1):38-42.

11. Fuchs S, Erbe T, Fischer HL, Tibesku CO. Intraarticular hyaluronic acid versus glucocorticoid injections for nonradicular pain in the lumbar spine. J Vasc Interv Radiol. 2005;16(11):1493-8.

12. Fuchs S, Mönikes R, Wohlmeiner A, Heyse T. Intra-articular hyaluronic acid compared with corticoid injections for the treatment of rhizarthrosis. Osteoarthritis Cartilage. 2006;14(1):82-8.

13. Altman RD, Bedi A, Karlsson J, Sancheti P, Schemitsch E. Product Differences in Intra-articular Hyaluronic Acids for Osteoarthritis of the Knee. Am J Sports Med. 2016;44(8):2158-65.

Short instructions for use

Composition: sodium hyaluronate from fermentation (Ostenil Mini: 10 mg; Ostenil: 20 mg; Ostenil Plus: 40 mg) and sodium chloride, disodium phosphate, sodium dihydrogen phosphate, water for injections. In addition, Ostenil Plus contains mannitol. Indication: Viscoelastic solutions for injection into the joint cavity in case of pain and restricted mobility in degenerative and traumatic changes of synovial joints. Inject into the affected joint once a week for a total of 1-3 (Ostenil Mini, Ostenil Plus) or 3-5 (Ostenil) injections. Contra-indications: Ostenil Mini, Ostenil and Ostenil Plus should not be used in patients with ascertained hypersensitivity to any of its constituents. Undesirable effects: Local secondary phenomena such as pain, feeling of heat, redness and swelling/ joint effusion may occur in the treated joint. The general precautions for intra-articular injections should be observed, including measures to avoid joint infections. Precautions: As no clinical evidence is available on the use of hyaluronic acid in children, pregnant and lactating women or in inflammatory joint diseases such as rheumatoid arthritis or ankylosing spondylitis, treatment with Ostenil Mini, Ostenil or Ostenil Plus is not recommended in these cases. Do not use if the pre-filled syringe or sterile pack are damaged. Any solution not used immediately after opening must be discarded. Store between 2 °C and 25 °C. Do not use after the expiry date indicated on the box.

The instructions for use (IFU) may vary depending on the country where the product is authorized. Please refer to your local IFU for more information.



TRB CHEMEDICA AG Otto-Lilienthal-Ring 26 85622 Feldkirchen/Munich

Rue Michel-Servet 12 1206 Geneva Switzerland +41 22 703 49 00 www.trbchemedica.com





LET'S MOVE AGAIN









RELIEVING JOINT PAIN SINCE 20 YEARS

Osteoarthritis is the most common joint disease, especially in middle-aged and elderly people.¹ In patients suffering from this disease, the concentration and the quality of the synovial fluid is reduced.²

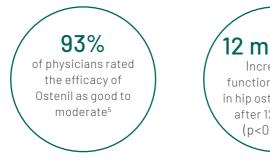
Viscosupplementation with exogenous hyaluronic acid (HA) aims to improve the viscoelastic properties of the synovial fluid and restore the mechanical properties of the cartilage.³

The Ostenil products have been developed to relieve pain and improve mobility in degenerative and traumatic changes of the knee joint and other synovial joints.

Based on the biomechanical properties of HA, the Ostenil range has demonstrated to be efficacious and safe in the treatment of osteoarthritis of the knee, the hip, the shoulder and of several small joints such as the foot, the hand or the spine facets.⁴⁻¹²



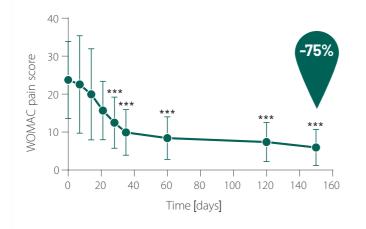
DECREASED JOINT PAIN WITH IMPROVED JOINT FUNCTION^{4,6,7}







Ostenil is superior to lidocaine to reduce pain after 1 month in hip osteoarthritis.⁷





Ostenil leads to a dramatic reduction of pain in patients suffering from knee osteoarthritis up to 5 months after the first intra-articular injection.⁴

** p<0.0061, *** p<0.0001 versus baseline. WOMAC, Western Ontario and McMaster Universities Osteoarthritis Index. Adapted from Fraiman et al.⁴

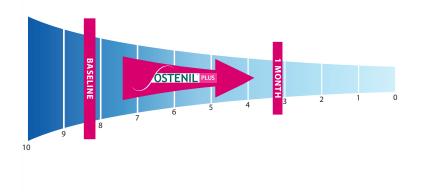






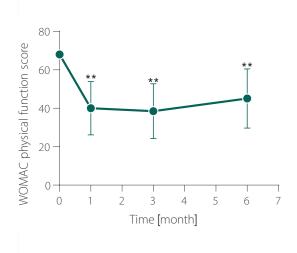


SUSTAINED EFFICACY WITH A REDUCED NUMBER OF INJECTIONS⁸





A single injection of Ostenil Plus reduces VAS pain score by more than 60%.⁸



** p<0.01 versus baseline. WOMAC, Western Ontario and McMaster Universities Osteoarthritis Index. Adapted from Dernek et al.ª



Ostenil Plus significantly reduces WOMAC pain and stiffness by more than 40% after one month in patients suffering from knee osteoarthritis.The ability to perform daily activities is enhanced up to 6 months.⁸



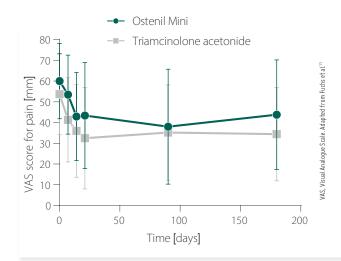






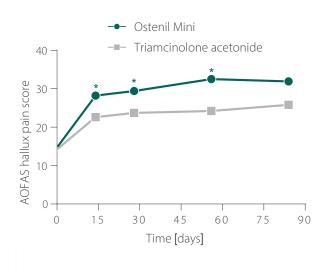


THE FLEXIBLE SOLUTION TO TREAT SMALL JOINTS





Spine osteoarthritis: Ostenil Mini decreases low back pain up to 6 months after the first injection.¹¹



* p<0.05 versus triamcinolone acetonide. AOFAS, American Orthopaedic Foot & Ankle Society. Adapted from Pons et al.¹⁰



Foot osteoarthritis: One injection of Ostenil Mini significantly reduces pain in comparison with an intra-articular corticosteroid.¹⁰









20 YEARS OF EXPERIENCE WITH HYALURONIC ACID IN OSTEOARTHRITIS



FREE OF ANIMAL PROTEINS

Sodium hyaluronate obtained by biofermentation



FACILITATION OF ASEPTIC USE

Sterile in the blister



FLEXIBLE TREATMENT SCHEME

3 different formulations, 1 to 5 injections



DESIGNED TO REPLACE NATURAL HA

Moderate molecular weight (1-2 million Da) Reduced flare-up risk¹³

