



OSTENIL® TENDON

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Sodium Hyaluronate 2.0 %

## Product characteristics

HIGH  
CONCENTRATION

2.0 % sodium hyaluronate  
(40 mg/2 ml)

FREE OF ANIMAL  
PROTEINS

Sodium hyaluronate obtained  
by biofermentation

PHYSIOLOGICAL

Isotonic solution with  
a physiological pH

READY-TO-USE

2 ml pre-filled syringe

SAFE NEEDLE  
ATTACHMENT

Latex-free syringe equipped  
with a Luer lock

FACILITATION  
OF ASEPTIC USE

Sterile in the blister

## The advantages of Ostenil Tendon

Is a conservative  
treatment based on the  
viscoelastic properties of  
hyaluronic acid<sup>6</sup>

Is superior to  
extracorporeal shock wave  
therapy,<sup>4</sup> one of the most  
frequently used treatments  
for tendinopathy

Is an alternative to  
corticosteroid injection<sup>5</sup>



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

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

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## Our solution for the treatment of tendinopathies



Tendinopathies are the most common tendon disorder mainly caused by overuse or inappropriate loading of tendons. The resulting inflammation and/or degenerative changes can lead to pain and loss of function.

Ostenil Tendon has been developed for the treatment of pain and restricted mobility in tendon disorders.

Based on the biomechanical properties of hyaluronic acid, Ostenil Tendon has demonstrated efficacy and safety in treating rotator cuff/supraspinatus tendinopathy,<sup>1,2</sup> Achilles tendinopathy,<sup>3,4</sup> tennis elbow,<sup>3,5</sup> and peroneal tendinopathy<sup>3</sup>.

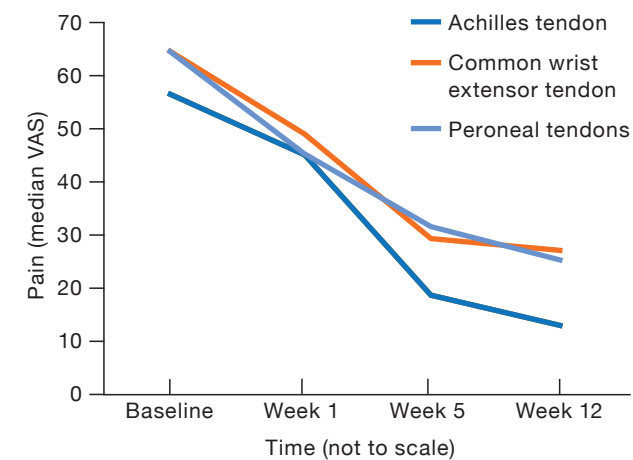
## How to inject Ostenil Tendon

Ostenil Tendon should be injected into the tendon sheath (intrasheath injection) or around the affected tendon (peritendinous injection) using a suitable needle (e.g., 25-27 G). The injection should be performed at the site of most intense pain. Ultrasound guidance is highly recommended during injection.

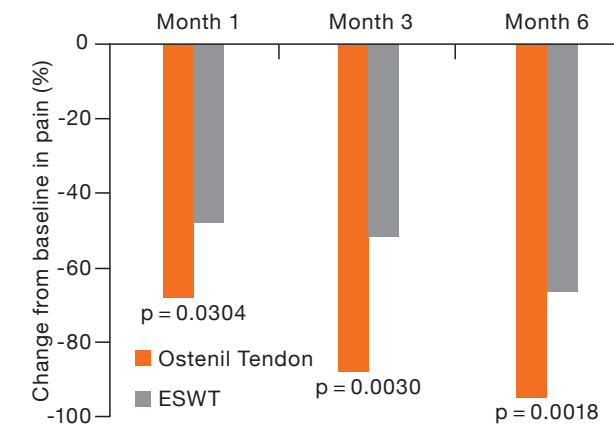
It is recommended to administer Ostenil Tendon once a week for a total of two injections. Several tendons can be treated at the same time and the treatment cycle can be repeated as required.

## Proven efficacy and safety for patients

### RAPID AND SUSTAINED PAIN RELIEF<sup>1-3</sup>

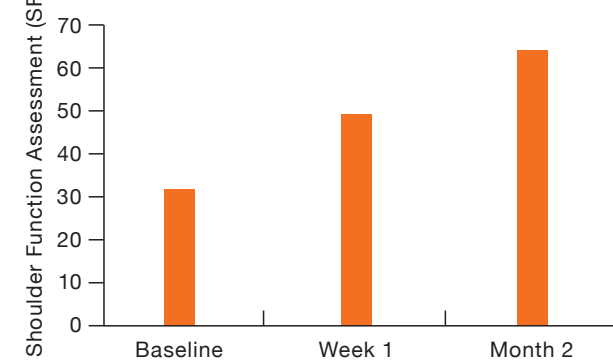


Two injections of Ostenil Tendon significantly relieved tendinopathic pain ( $p < 0.0001$  at Weeks 5 and 12 compared with baseline).<sup>3</sup>



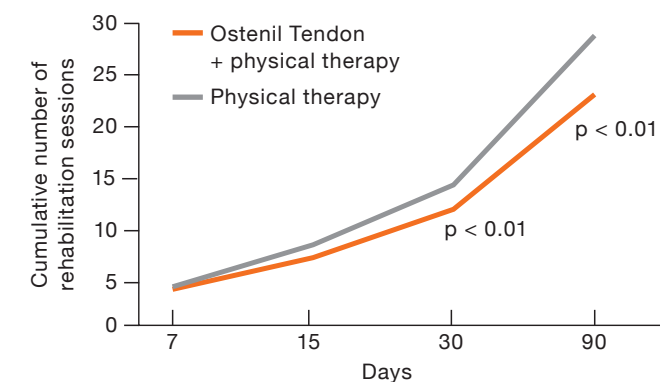
Ostenil Tendon significantly reduced pain for up to six months, and was superior to extracorporeal shock wave therapy (ESWT).<sup>4</sup>

### IMPROVED TENDON FUNCTION<sup>1,2</sup>



Ostenil Tendon significantly improved the functional activity of the shoulder at two months after the initiation of treatment ( $p < 0.001$ ).<sup>1</sup>

### QUICK REHABILITATION<sup>7</sup>



The cumulative number of rehabilitation sessions was significantly lower for patients treated with physical therapy in combination with Ostenil Tendon injections than for those treated with physical therapy alone ( $p < 0.01$  after 90 days of follow-up).<sup>7</sup>

### GOOD TOLERABILITY<sup>3,4,7</sup>

## Instructions for use

### OSTENIL® TENDON

Sodium hyaluronate from fermentation 2.0%. Viscoelastic solution for peritendinous or intrasheath injection. Sterile by moist heat.

### Composition:

1 ml isotonic solution contains 20.0 mg sodium hyaluronate and sodium chloride, disodium phosphate, sodium dihydrogen phosphate, mannitol and water for injections.

### Indications:

For the treatment of pain and restricted mobility in tendon disorders.

### Contra-indications:

OSTENIL® TENDON should not be used in patients with ascertained hypersensitivity to one of its constituents.

### Interactions:

No information on the incompatibility of OSTENIL® TENDON with other medications administered to tendons is available to date.

### Undesirable effects:

Local secondary phenomena such as pain, feeling of heat, bruising, redness and swelling may occur following treatment with OSTENIL® TENDON.

### Dosage and administration:

Inject OSTENIL® TENDON around the affected tendon or into the affected tendon sheath once a week for a total of 2 injections. Several tendons may be treated at the same time. Repeat treatments may be administered as required.

The content and outer surface of the OSTENIL® TENDON pre-filled syringe are sterile as long as the sterile pack remains unbroken. Take the pre-filled syringe out of the sterile pack, unscrew the Luer-Lock cap, attach a suitable needle (for example 25 to 27 G) and secure by turning slightly. Remove any air bubble, if present, before injection.

### Precautions:

Caution should be exercised in patients with known hypersensitivity to medicinal products. As with all invasive treatments in very rare cases an infection may occur. Hence, the general precautions for peritendinous and intrasheath injections should be observed. OSTENIL® TENDON should be instilled accurately into the tendon sheath or around the affected tendon, if necessary under imaging control.

Avoid nerve lesions and injections into blood vessels! As no clinical evidence is available on the use of OSTENIL® TENDON in children, pregnant and lactating women as well as in acute traumas, the treatment with OSTENIL® TENDON is not recommended in these cases. Do not use if the pre-filled syringe or the sterile blister are damaged. Any solution not used immediately after opening must be discarded. Otherwise the sterility is no longer guaranteed and this may be associated with a risk of infection. Store between 2 °C and 25 °C! Do not use after the expiry date indicated on the box! Keep out of the reach of children!

### Characteristics and mode of action:

A tendon is a strong structure of fibrous connective tissue designed to transmit forces from muscle to bone and resist load during muscle contraction. Tendons may be surrounded by different structures: fibrous bands, synovial sheaths, peritendon sheaths, tendon bursae. Overuse or inappropriate biomechanical stress may cause inflammation and/or degenerative changes of the tendon, leading to pain and loss of function. Lubricating the tendon could reduce pain, improve tendon function and reduce the potential for adhesions.

Because of its lubricating and viscoelastic properties OSTENIL® TENDON promotes tendon gliding and the physiological repair process. In addition, due to its macromolecular meshwork OSTENIL® TENDON reduces the free passage of inflammatory cells and molecules.

OSTENIL® TENDON is a transparent solution of natural and highly purified sodium hyaluronate obtained by fermentation and is devoid of animal protein. OSTENIL® TENDON also contains mannitol, a free radical scavenger, which helps to stabilise the chains of sodium hyaluronate. In biocompatibility studies OSTENIL® TENDON was found to be particularly safe.

### Presentation:

One pre-filled syringe of 40 mg./2.0 ml OSTENIL® TENDON in a sterile pack.

### OSTENIL® TENDON is a medical device.

### To be used by a physician only.

Last revision date: 2017-03.

The text of this information may vary depending on the country where the product is authorised. In this case, the national authorisation prevails.