



**SINGONE®**

Cross-linked Sodium Hyaluronate

FOR INTRA-ARTICULAR SINGLE INJECTION

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# SINGONE®

## Cross-linked Sodium Hyaluronate

Indicated for the treatment of pain in osteoarthritis (OA) of the knee

✓ Single injection

✓ High molecular weight

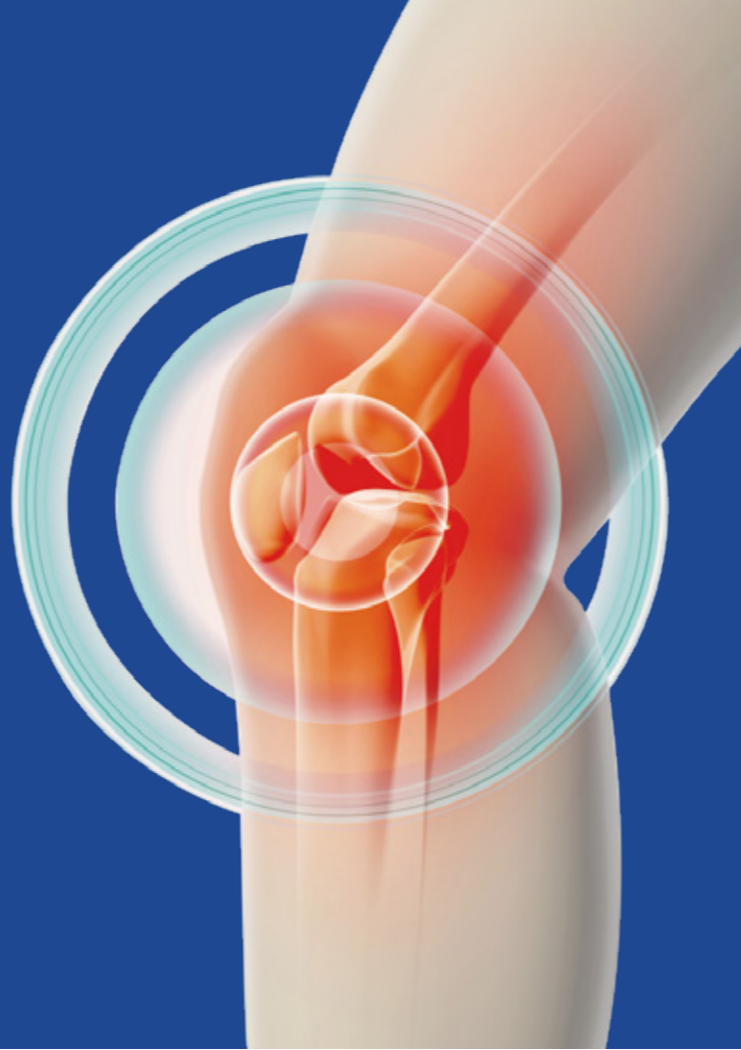
✓ Long-lasting

✓ 100% biocompatibility



## Indications

SINGONE® Cross-linked Sodium Hyaluronate is indicated for the treatment of **pain in osteoarthritis (OA) of the knee in patients** who have failed to respond adequately to conservative nonpharmacologic therapy and to simple analgesics (e.g. acetaminophen)



## What is Osteoarthritis?

Osteoarthritis (OA), a degenerative joint disease, can lead to cartilage degradation, synovial inflammation, and joint muscle atrophy, severely impacting patients' quality of life. It predominantly affects middle-aged and elderly individuals as well as those who are overweight, with its incidence rising with age and weight gain. Moreover, it is more prevalent in women than in men. Although the exact cause remains unclear, clinically it is associated with factors such as genetics, obesity, trauma, aging, and inflammation.

## Who Is at Risk for OA?



People over the age of 45



Obesity, overweight will put extra pressure on the knees



Gender, OA is more prevalent in women, after age of 55



Young people with sports-related injuries



Athletes needing viscoelastic supplements for joint lubrication and mechanical support



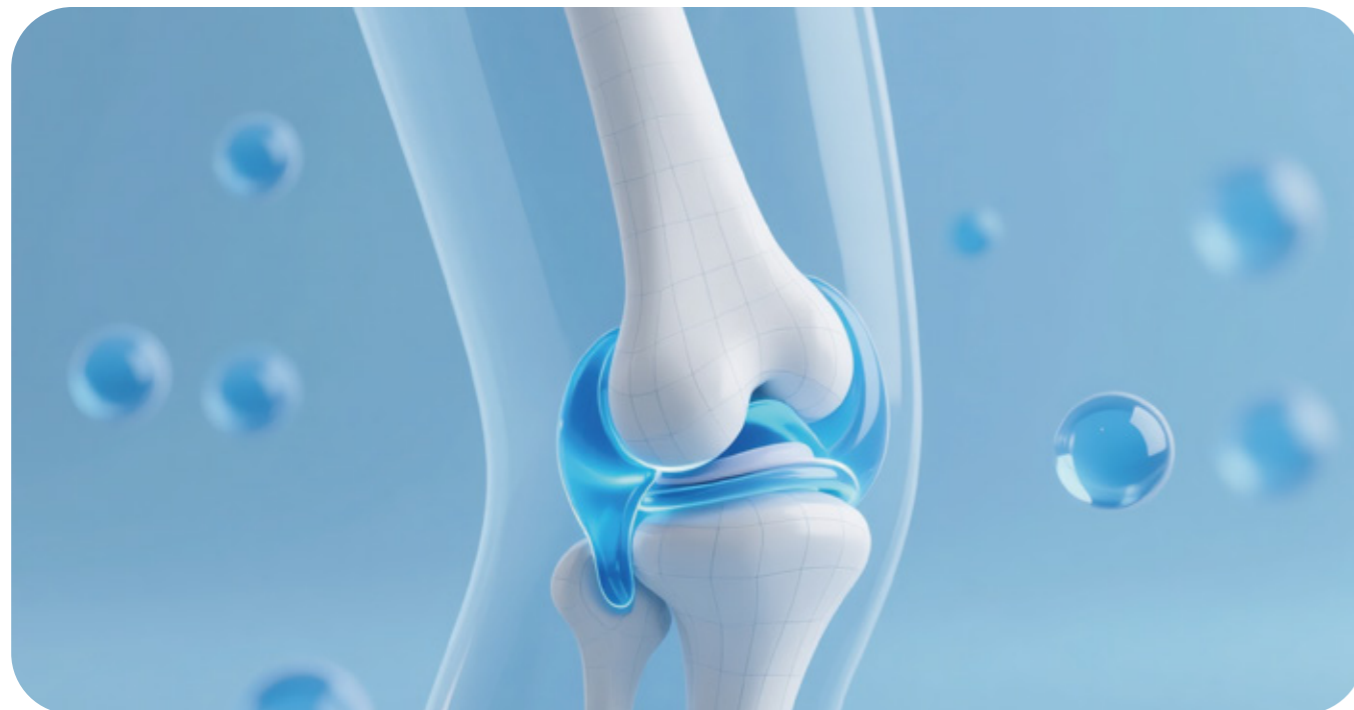
People with osteoarthritis have already been treated with pain relievers and other treatments did not work well

## Specification ↙

Brand	Volume	Concentration	Application
SINGONE®	3ml	20mg/mL	Indicated for the treatment of pain in osteoarthritis (OA) of the knee

## Mode of Action ↙

The body's hyaluronic acid constitutes **a natural part of the synovial fluid** and acts in the joints both as a lubricant of cartilage and ligaments and as a shock absorber. It is known that the synovial fluid in joints affected by osteoarthritis has a much lower viscosity and elasticity than in healthy joints. Injections of hyaluronic acid in the joint to restore the viscosity and elasticity **can diminish the pain and improve the mobility of the joint.**



## SINGONE® Advantages ↙

### • Single injection

Convenience of a single injection compared to multiple visits to the physician, and it reduces the number of punctures and pain.

### • High molecular weight

Molecular weight of raw materials > 2.1 M Daltons.

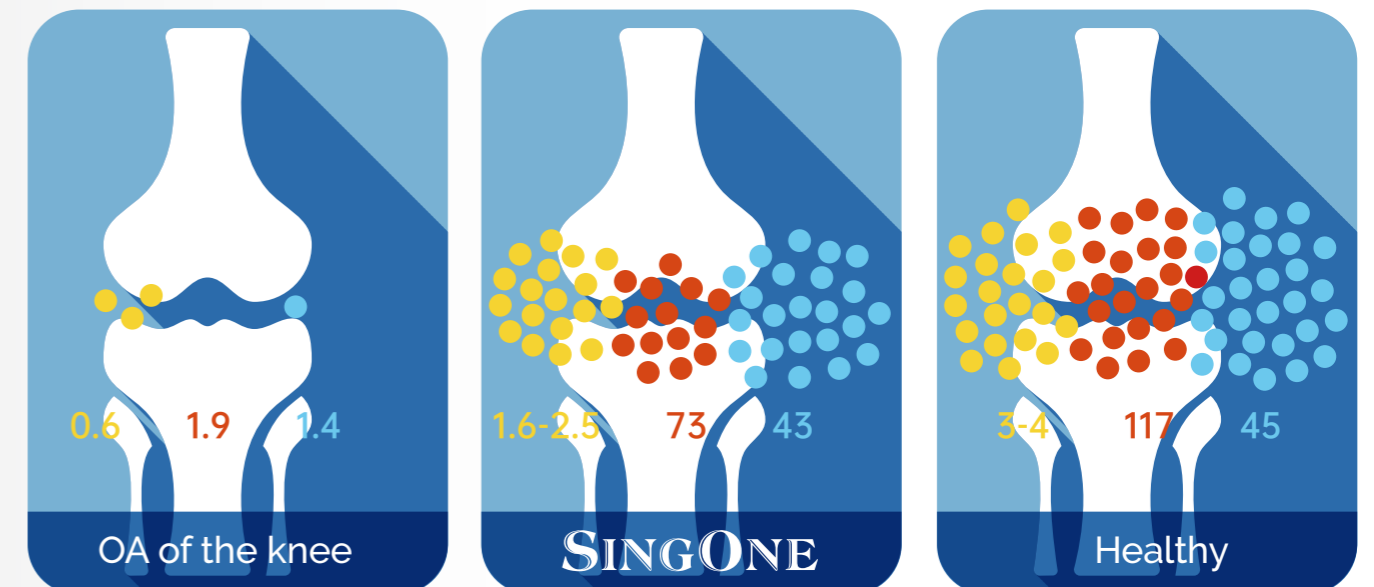
### • Long-lasting

Cross-linked HA (Singlink® patented technology) remains in the body longer, extending the duration of pain relief over 6 months.

### • 100% biocompatibility

Highly concentrated, non-animal sourced HA, non-immunogenic, and has excellent biocompatibility.

### • Closely matches healthy synovial fluid



Properties of synovial fluid:

● Molecular weight (million daltons) ● Elasticity (Pa at 2.5 Hz) ● Viscosity (Pa at 2.5 Hz)

## Comparison ↙

Product Name	D	M	SINGONE®
Sodium hyaluronate concentration	20mg/mL	22mg/mL	20mg/mL
Specification	3mL	4mL	3mL
Molecular weight	/	1-2.9 million Daltons	<b>1.6-2.5 million Daltons</b>
Cross-linking or not	Cross-linked	Cross-linked	Cross-linked
Injection dose	Single injection	Single injection	Single injection
Duration of efficacy	6 Months	6 Months	6 Months
HA Origin	Bacterial Fermentation	Bacterial Fermentation	Bacterial Fermentation

**For viscosupplementation, high molecular weight HA is more effective than low molecular weight HA**

## Clinical Trial Results ↙

The current trial results show that patients receiving lightly cross-linked sodium hyaluronate (SINGONE®, 60mg) treatment experienced significant pain relief **with an effectiveness rate (PPS) of 91.6% in the trial group.**

Single high dose viscosupplement injection, **providing greater convenience** for the patients.

## Injection Method ↙

### 01 Before injection

Disinfect the injection area with alcohol or another antiseptic solution.



Insert the injection needle and push until the product flows out of the needle.



Spray the injection site with a local anesthetic.

### 02 During injection

Perform intra-articular injection.



### 03 After Injection

- Cover the area with a sterile sponge and maintain pressure to prevent any bleeding.
- Apply a sterile bandage and apply ice to reduce swelling.
- Avoid strenuous exercise after surgery and administer anti-inflammatory medication if necessary.

Note:

If there is a large amount of fluid accumulation in the patient's joints, the fluid must be aspirated before injection.