

NEW



# Hyrüan ONE®

*Safe and Effective Treatment  
for Knee OA Pain*



Activate Your Mobility

Activate Your Confidence



**LG Chem**

Life Sciences Company

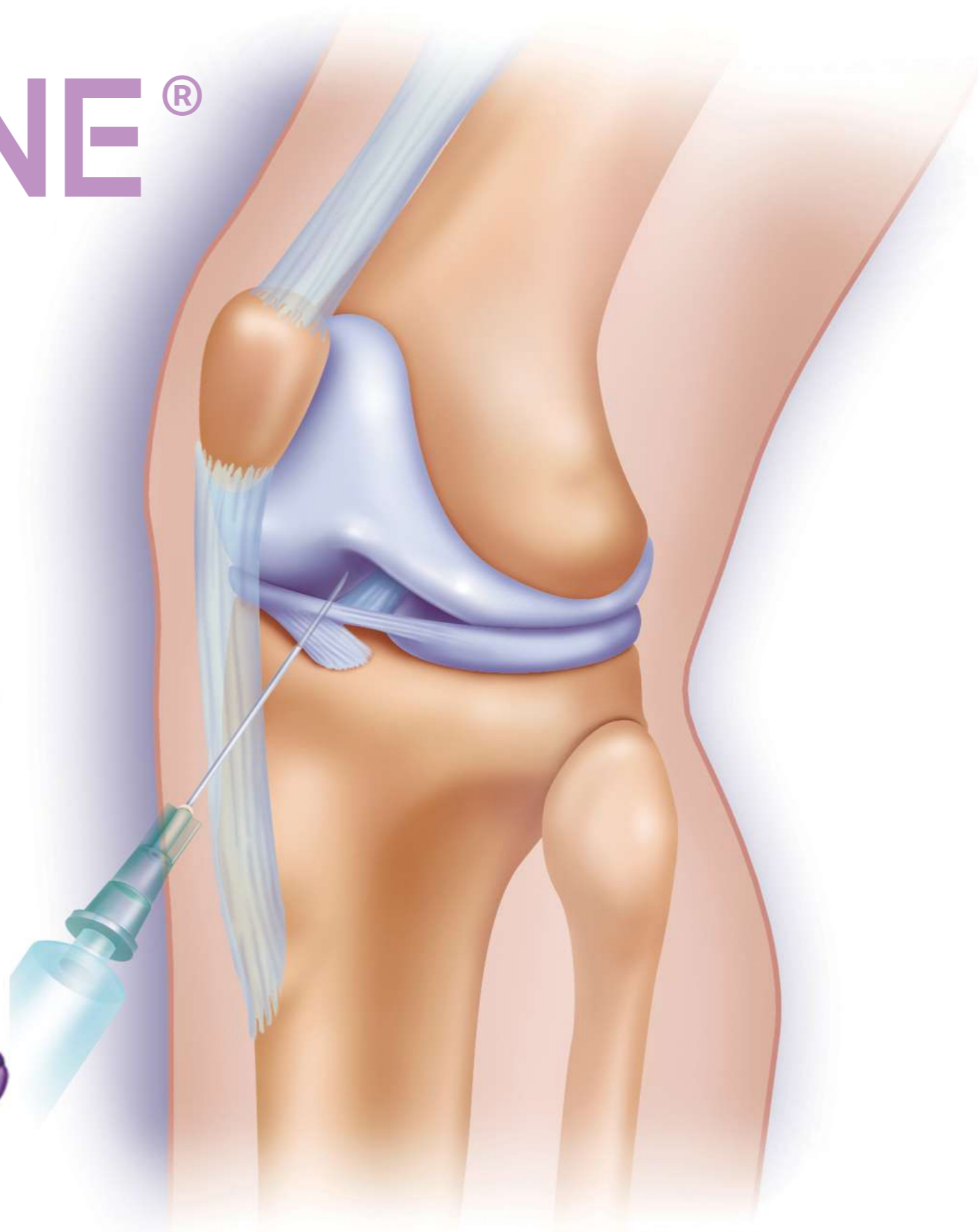
Viscosupplement is a treatment using Hyaluronic Acid (HA) or Sodium Hyaluronate to replace diseased synovial fluid and to restore the visco-elasticity loss in the knee joint caused by osteoarthritis (OA).

For over 20 years in Malaysia, treatment with viscosupplement is generally safe and effective.

Many brands and formulations have evolved, from using different sources of HA, different HA concentration, high or low molecular weight to cross-linked or non cross-linked formula and is even used concomitantly with blood derived plasma product.

Viscosupplement such as Hyruan ONE, is a single injection HA, formulated using latest technology, non-avian source (not from chicken source), cross-linked, high molecular weight and contains high HA concentration.

Hyruan<sup>®</sup> ONE<sup>®</sup>



## The goals of treatment are:

- *To reduce pain*
- *To improve mobility*
- *To bring your joints back to life*

## Am I suitable for Hyruan ONE treatment?

- You are suitable for Hyruan ONE treatment if you are:
  - Diagnosed with mild to moderate stage of knee OA
  - Taking pain medications
  - Not ready for surgery

Please check with your doctor about this treatment.

## How long does the pain relief last?

- You may start to feel the pain reduction 2-3 weeks after the treatment and the greatest pain reduction can be felt after week 10 to week 14\*.
- Pain relief duration varies across patient to patient depending on severity of the knee OA stage.
- For mild to moderate stage, it may last up to 6 months. Some patients may experience continuous pain relief beyond 6 months.

\*Ha et al. BMC Musculoskeletal Disorders (2017) 18:223

## Any side effects?

- The common but temporary side effects reported are redness, warmth, swelling and injection site pain.
- These side effects will normally go away after 48 hours post-treatment. If it happens to you, you may put a cold pack over the area and reduce joint movement for the next 48 hours.
- If the side effects persist for more than 7 days, please visit your doctor for further examination.

## What do I expect during injection?

- Most doctors will use a small volume of local anaesthetic to soothe the sensation during injection.
- Most of the time patients will not feel the sensation during injection and the procedure can be done in less than 5 minutes.
- After which the doctor will mobilize your joint a few times to get the Hyruan ONE distributed evenly in the joint.
- You may walk like normal after the injection. It is advisable to rest and reduce movement for the next 48 hours.

Features	Benefits
Single injection	Convenient and save cost*
Cross-linked HA	Injected HA lasts longer in the joint
High molecular weight	Better cushioning effect and protection to the joint
High HA concentration	Stimulates own joint HA production
Non-avian sourced HA	No avian related allergic reactions

**\*\*LONG RESIDENCE TIME  
70 DAYS**

\*Time and costs relate to multiple visits to hospital.

\*\*Withstand degradation better and longer stimulation of endogenous HA compared to other HAs in the market.

# What happens inside the joint after Hyruan ONE treatment?

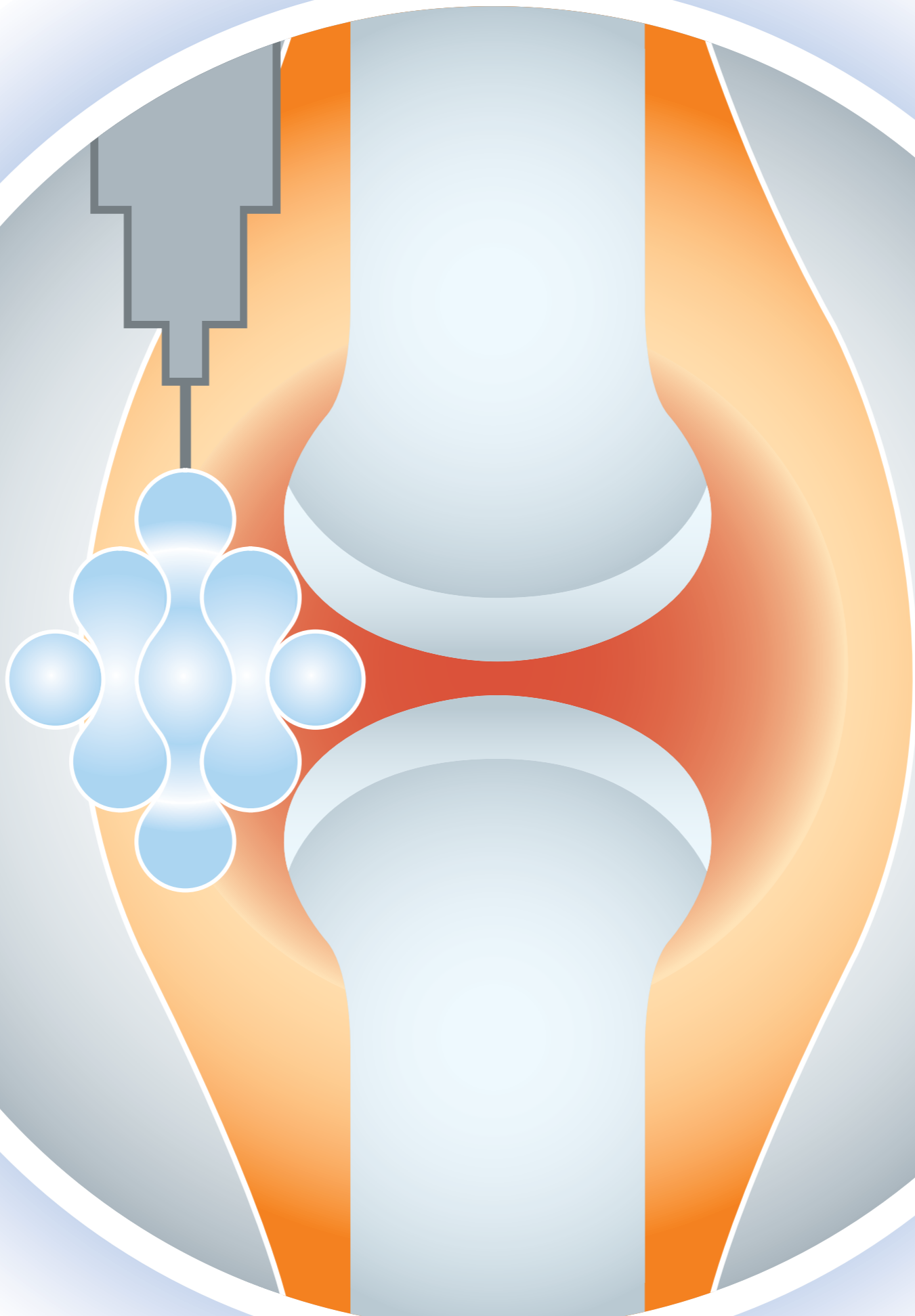


## Reduce Inflammation

- Cytokine Actions ↓
- Prostaglandin Synthesis ↓
- Joint Inflammation ↓

## Reduce Joint Pain

- PGE2 Synthesis ↓
- Bradykinin Level ↓
- Nociceptive Reaction ↓
- Joint Pain ↓



## Cartilage Protection

- Proteoglycan Aggregates ↑
- TIMP\* Activity ↑
- Chondrocyte Synthesis ↑
- Cartilage Degradation ↓

## Restore Joint Function

- Endogenous Production of HA
- Recovery of Function

\* TIMP: Tissue Inhibitor Metalloprotenase



*Complimentary Post-injection Care Set to optimize treatment results.*

Approved by:



Submitted to:

US FDA DMF

*For more product information, please visit [www.philosmed.com](http://www.philosmed.com)*

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