

BIOVISC

For Smooth Joint Activity

Through
Anti-inflammatory,
Anabolic, Analgesic,
and Chondro-Protective
mechanisms! ¹



biotech

ORTHO PAEDIC

What are the causes and symptoms of knee OA?²

Symptoms of osteoarthritis (OA) present as pain in and around the joints, morning stiffness, restricted joint movements associated with muscle weakness.

Knee OA is associated with disrupted sleep, depression, increased sedentary behavior, less physical activity, obesity and decreased the quality of life.



Biovisc
reduces pain by
36.9%³



Biovisc
reduces stiffness by
48.9%³



Biovisc
improves mobility
(physical function) by
39.7%³



WHY BIOVISC?

Most Comprehensive Portfolio in Intra-articular Injection Segment

- 20 mg. & 40 mg. for Multiple Injection regime
- 60 mg. & 90 mg. for Single Injection Treatment



Superior Formulation
High Molecular Weight Formulation with **Higher Viscosity** and **HA concentration** as per requirement



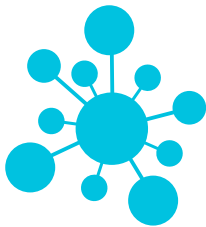
Quality Certification
(CE) available for entire range

Superior Patient Results
in pain, stiffness & mobility for comfort of those suffering from OA

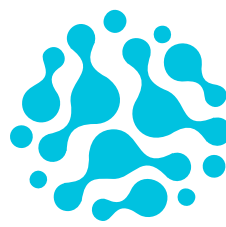
SUPERIOR FORMULATION



UNIQUE
90 MG. (3%)
CONCENTRATION



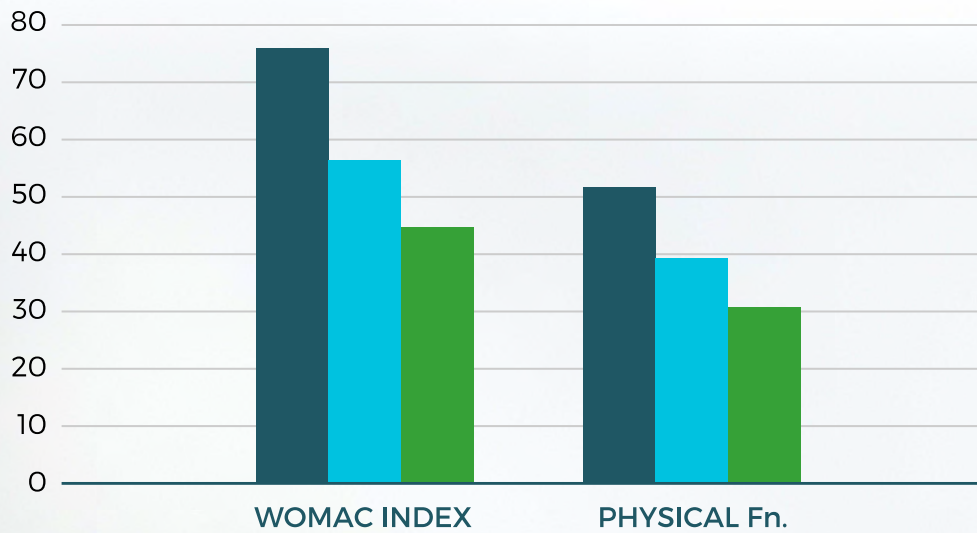
HIGHER
MOLECULAR
WEIGHT
Up to 3,2 Mn.
Dalton



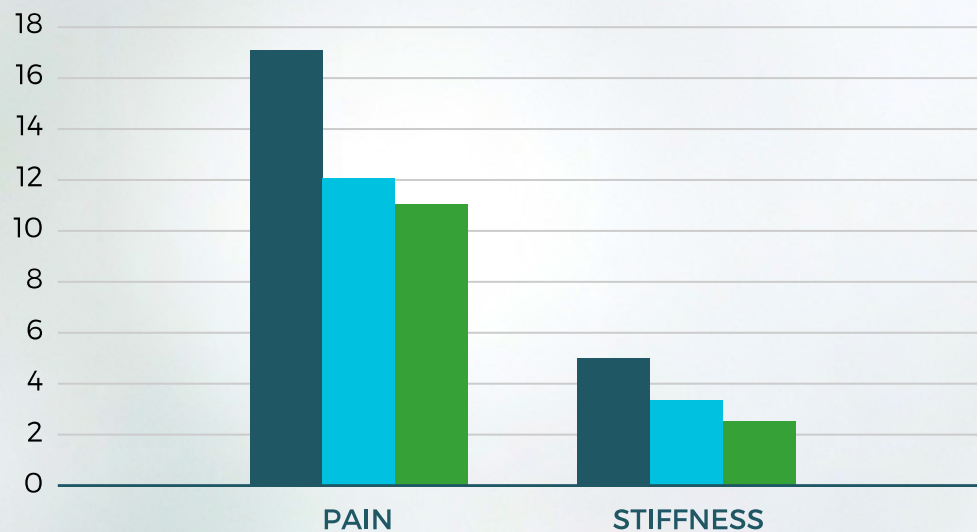
HIGH
VISCOSITY
Up to 850,000
mPas.

SUPERIOR PATIENT RESULT

	Base Line	3 Months	6 Months ³
WOMAC INDEX	75	53	45
PHYSICAL Fn.	52	38	31



	Base Line	3 Months	6 Months ³
PAIN	17	12	11
STIFFNESS	5.3	3.3	2.7



■ BASELINE
 ■ AFTER 3 MONTHS
 ■ AFTER 6 MONTHS

¹ Axe JM, Snyder-Mackler L, Axe MJ. The role of viscosupplementation. Sports Med Arthrosc 2013; 21: 18-22 [PMID: 23314264 DOI: 10.1097/JSA.0b013e3182673241]
² www.ncbi.nlm.nih.gov › pmc › articles › PMC5952125
³ Data on File. WOMAC Score at the end of 6 months after Injection with Optivisc Single Shot (90Mg.)

COMPREHENSIVE PORTFOLIO OF HIGH MOLECULAR WEIGHT HA FORMULATIONS

	BIOVISC ORTHO	BIOVISC ORTHO PLUS	BIOVISC ORTHO SINGLE 60	BIOVISC ORTHO SINGLE 90
Sodium Hyaluronate concentration	Sodium Hyaluronate 1% (20 mg)	Sodium Hyaluronate 2% (40 mg)	Cross-linked Sodium Hyaluronate 3% (60 mg)	Cross-linked Sodium Hyaluronate 3% (90 mg)
Origin	Bacterial Fermentation	Bacterial Fermentation	Bacterial Fermentation	Bacterial Fermentation
Volume	2ml.	2ml.	2ml.	3ml.
Frequency	3-5 injection with weekly interval	3-5 injection with weekly interval	Single injection	Single injection
Molecular Weight	2.8 to 3.2 million dalton	2.8 to 3.2 million dalton	2.8 to 3.2 million dalton	2.8 to 3.2 million dalton
Osmolarity	270-400 mOsm/Kg	270-400 mOsm/Kg	270-400 mOsm/Kg	270-400 mOsm/Kg
Shear Viscosity at 25°C	3,00,000 mPaS to 4,50,000 mPaS	4,00,000 mPaS to 7,00,000 mPaS	5,00,000 mPaS to 8,50,000 mPaS	5,00,000 mPaS to 8,50,000 mPaS

