

Hyalofast[®]

The Scaffold for Cartilage Regeneration

Product Brochure



**100% hyaluronic acid based scaffold.
Backed by 14+ years of clinical data.¹**

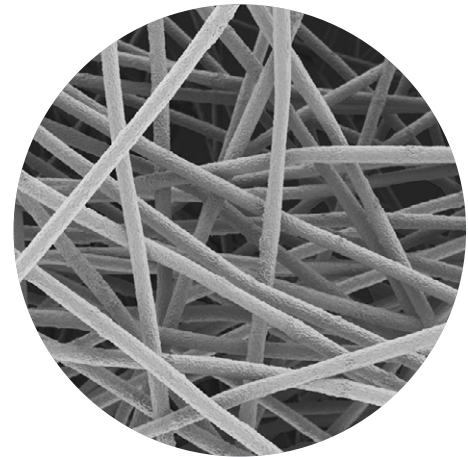
Hyalofast: The Simple, Adaptable and Proven Cartilage Repair Solution

Hyalofast is a biodegradable scaffold designed to support the repair of cartilage injuries. Made entirely from Hyaff®, a benzyl ester of hyaluronic acid (HA), Hyalofast is a naturally derived, non-animal biomaterial designed to support safe and effective cartilage repair for every patient.²

It is designed to entrap mesenchymal stem cells (MSCs) from bone marrow aspirate concentrate (BMAC) for the repair of cartilage defects, specifically chondral and osteochondral lesions.^{1,2} It can also act as a chondroprotective layer, helping retain MSCs at the site following bone marrow stimulation (BMS) procedures.

The scaffold's fibrous structure promotes cell adhesion, proliferation, and differentiation, allowing MSCs to organise within its three-dimensional structure to support the creation of functional cartilage.³

As Hyalofast gradually degrades, it enriches the site with hyaluronic acid, a key component of the extracellular matrix, and supports cartilage regeneration.^{1,4}



Hyalofast Has Two Roles

Structural Role

3D structure of Hyalofast facilitates the entrapment of mesenchymal stem cells (MSCs) and cell adhesion, supporting their multi-dimensional development³



Biological Role

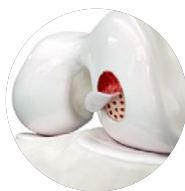
As Hyalofast degrades, it creates an HA-rich environment that favours chondrogenesis (the biological process of cartilage formation)^{1,4}



The Process



MSCs recruited by bone marrow stimulation (BMS) procedures or from BMAC



Hyalofast initially fills the defect, temporarily substituting the chondral and osteochondral tissue



Facilitates entrapment, adhesion and proliferation of MSCs within its 3D matrix^{1,5}



Hyalofast degrades naturally, enriching the lesion site with HA to enhance the regenerative environment and induce chondrogenesis⁶



Regenerated cartilage

Facilitates cartilage repair by guiding the formation of new tissue that mimics native cartilage.⁶

Designed for Ease of Use and Surgical Handling

Quickly and easily implantable via arthroscopy or mini-arthrotomy



Soft texture allows it to conform easily to the defect anatomy

Can be applied in any orientation, stacked or laid side by side



Adheres to the site of application with no additional fixation in most cases



Enduring Patient Outcomes Backed by Long-Term Data

01

Long Term Outcomes

With data out to 14 years, Hyalofast is a clinically proven solution for cartilage repair¹

02

Significant Pain Reduction and Function Improvement

Consistent improvements in clinical outcomes and sustained through 5, 8, and 14 years^{1,4,7}

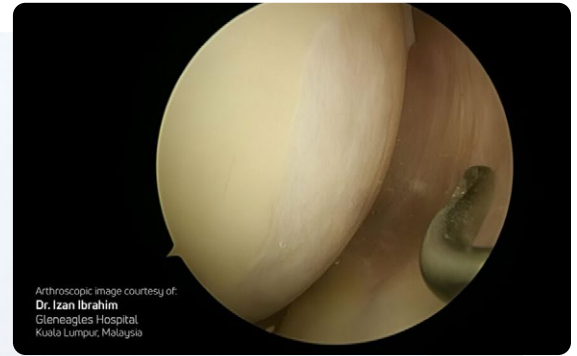
03

Quality and Durability of Repair

Confirmed long-term durability of cartilage repair in full-thickness knee lesions¹

Clinically Proven

- ✓ Second look biopsy histology, and T2 mapping confirm durable hyaline-like cartilage^{8,9,10,11,12}
- ✓ Backed by up to 14 years of data showing significant improvements in pain and function¹



Hyalofast: early, joint-preserving intervention that maintains future surgical options

Indications

Hyalofast is CE-marked as a biodegradable support for the entrapment of mesenchymal stem cells for the repair of chondral and osteochondral lesions. It acts as a support for bone marrow aspirate or as a chondroprotective coverage, which favors in situ residence of mesenchymal stem cells after their mobilisation due to microfracture or perforation procedures.

For complete product information including indications, contraindications, warnings, precautions, possible complications and product storage, please refer to the product IFU.

Part #	Description
144714F	Hyalofast® 2x2
144722F	Hyalofast® 5x5

References

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