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IntraGraft®

Bone Marrow

Disposable bone marrow aspiration set.

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IntraGraft®

Bone Marrow

Disposable bone marrow aspiration set.

Aspiration of MSCs from bone marrow

IntraGraft Bone Marrow – Disposable bone marrow aspiration set is a single-use device for the selective aspiration of mesenchymal cells from bone marrow that has innovative features to optimize cell yield and minimize peripheral blood contamination thanks to a micrometric lateral aspiration system and hermetically sealed distal tip.

IntraGraft Bone Marrow – Disposable bone marrow aspiration set is a single-use device that does not require a centrifuge for the selective collection of mesenchymal cells from bone marrow.

IntraGraft Bone Marrow – Disposable bone marrow aspiration set is a state-of-the-art technology designed to selectively aspirate mesenchymal stem cells (MSCs) from hematopoietic bone marrow with minimal contamination from sinusoidal peripheral blood.

This is due to an innovative micrometric myeloaspiration system that uses nozzles positioned around the entire circumference of the trocar, which is closed at the distal end. The design of this device ensures that, once the cortical bone is penetrated, it is possible to sample a greater bone marrow cellularity in the same aspirated volume than with similar devices, because the arrangement of the aspiration holes prevents the collection of peripheral blood and samples only bone marrow blood.

IntraGraft Bone Marrow – Disposable bone marrow aspiration set offers a one-step procedure by allowing the simultaneous collection of small samples taken from multiple bone marrow sites, thus preserving the structure of the marrow itself and minimizing peripheral blood sampling, which means higher concentrations of mesenchymal progenitor cells can be obtained.

IntraGraft Bone Marrow – Disposable bone marrow aspiration set is a single-use device that does not require a centrifuge for selective collection of mesenchymal cells from bone marrow. The micrometric system for lateral aspiration and the closed distal tip of the trocar optimize cell yield and minimize peripheral blood contamination. During the sampling process, the aspiration cannula gradually retracts 1 cm with each full rotation, selectively collecting only 1 ml of mesenchymal cells from the lateral holes. The micrometric ferrule and mechanics of the device allow precise repositioning of the lateral aspiration holes within the medullary cavity. After each sampling of 1 to 2 ml, the trocar handle is rotated 360° counterclockwise, which retracts the device about 1 cm from the body, and subsequent extractions are made from these new sites in the marrow. This differs from extractions with a conventional open-ended needle, which are taken from the same insertion site each time.

/ IntraGraft Bone Marrow – Disposable bone marrow aspiration set

Main features:

Innovative

- Hermetically sealed distal tip: ensures high cell yield.
- 100% lateral suction: no contamination from peripheral blood.
- Micrometric gear: cannula retraction of 0.5 cm for every 360° of rotation.

Easy

- Simple and reproducible technique in a single surgical step.
- Minimally invasive procedure.
- Residual retraction control thanks to the graduated scale on the micrometer gear.

Convenient

- No centrifugation, rental, or machine maintenance is required.
- Zero processing time: MSCs from ready-to-use bone marrow.
- Minimizes staff training and operating room preparation.

Fields of application

Bone marrow aspirated with Bone Marrow Harvester can be injected to accelerate the natural healing process or can be combined with other types of bone substitutes to create an improved bone graft.

MSC concentrate from bone marrow

Indications

- Bone cyst
- Intra-articular infiltration
- Tendinopathy
- Pain reduction (facet joints)

MSC concentrate from bone marrow + bone substitute

Indications

- Spinal arthrodesis
- Subchondral fracture
- Joint arthrodesis

MSC concentrate from bone marrow + autologous bone

Indications

- Avascular necrosis
- Subchondral fracture
- Pseudoarthrosis
- Traumatology and fractures

EU: THE MEDICAL PRACTITIONER MUST VERIFY THE FUNCTIONAL COMPATIBILITY FOR EACH SPECIFIC APPLICATION

The kit includes:

Aspiration syringe

Filtering system (optional)

Injection syringe

Surgical Technique.

• 1

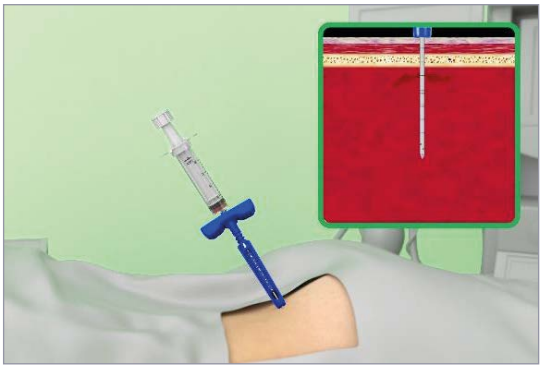
Introduce the tip of the Bone Marrow Harvester at least 2 cm beyond the cortical layer.

• 2

Remove the internal stylet, connect the VacLok syringe, and aspirate the first ml of bone marrow.

• 3

Introduce the cannula to the desired depth and adjust the gear until it makes contact with the skin.

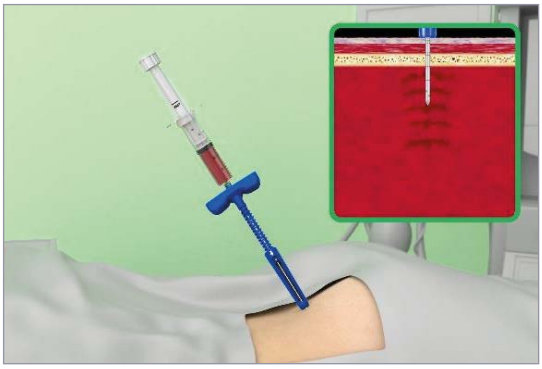


• 4

Rotating the handle through 360° retracts the cannula by 0.5 cm and allows aspiration from an intact site, preventing contamination from peripheral blood.

• **5**

The 270 µm filter provided in the kit allows any contamination from bone fragments, oil, and fat to be separated out.



/ Composition of the standard kit

- 1 Bone Marrow Harvester device for aspirating bone marrow MSCs
- 1 270 µm filter
- 1 VacLok AT 20 ml syringe
- 1 10 ml injection syringe

Ordering informations.

/ IntraGraft Bone Marrow – Disposable bone marrow aspiration set

Ref.	Description
KIG2	IntraGraft Bone Marrow – Disposable bone marrow aspiration set

Assembled Kit composition	Qty
Bone Marrow Harvester (Bone marrow MSC aspiration device + 270 µm filter + 20 ml VacLok AT syringe + 10 ml injection syringe)	1
Injection Syringes, BD 20cc	1

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