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IntraGraft®

Fat.

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Fat.

Regenerative medicine

The use of autologous adipose tissue for patient healing represents a paradigm shift in clinical care. Once considered purely experimental, it is now a well-recognized and accepted practice, supported by numerous clinical cases and continuously advancing scientific studies. Adipose-derived mesenchymal stem cells (ADSCs) are currently used in clinical settings for various applications, including cosmetic surgery, plastic, reconstructive, and esthetic surgery, orthopedics, proctology, urology, gynecology, pain therapy, and other clinical fields that are embracing the branch known as regenerative medicine. Adipose tissue is rich in regenerative factors due to the presence of the stromal vascular fraction (SVF). SVF consists of a heterogeneous population of cells (mesenchymal, stromal, pericyte, fibroblast, endothelial, immune, etc.) with multipotent capabilities. It is this population of cells that, working in combination with the inherent biological structure of adipose tissue, stimulates neoangiogenesis and tissue regeneration. [1]

The IntraGraft Fat kit for the processing and minimal manipulation of adipose tissue is a solution that includes all the necessary tools for a complete regenerative medicine procedure that can also be performed in an outpatient setting with local anesthesia and in a matter of minutes.
The protocol is quick and easy and consists of:
1. Collection of a small amount of adipose tissue
2. Treatment of adipose tissue using Anaerobic IntraGraft transfers of different sizes and IntraGraft NanoTransfer™ TNF - True NanoFat
3. Grafting of the preparation to the patient's site of interest.

In addition to the cannulas needed for the preparation and harvesting of adipose tissue, the kit includes three sizes of IntraGraft anaerobic transfer device (2.4 mm, 1.4 mm, and 1.2 mm) for mechanical emulsification. IntraGraft Fat is a kit that uses mechanical macrofat-to-nanofat processing technology by means of sized anaerobic transfers and a NanoTransfer device, resulting in a solution that can be injected with 27G and 30G needles, ideal for improving patient comfort during the injection phase of the procedure.

[1] Alexander RW (2019) Overview of Cellular Stromal Vascular Fraction (cSVF) & Biocellular Uses of Stem/Stromal Cells & Matrix (tSVF + HD-PRP) in Regenarative Medicine, Aesthetic Medicine and Plastic Surgery. J Stem Cell Res Dev Ther: S1003, (HSOA Journal of Stem Cells Research, Development & Therapy)

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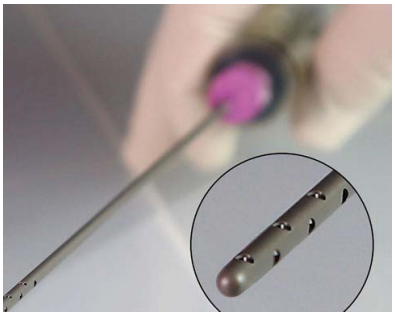
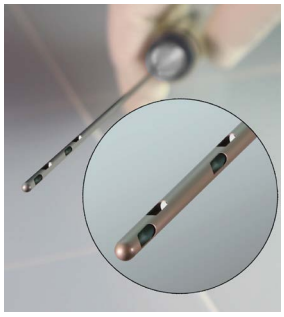
Main features:

- Assembled kit in disposable STERILE package
- Easy to use
- Less than 30 minutes required for full procedure
- Reduced volume of adipose tissue to be harvested (15/20 ml)
- Minimum level of injectability (can be injected through a 27G or 30G needle)
- Macro, micro, and nanofat

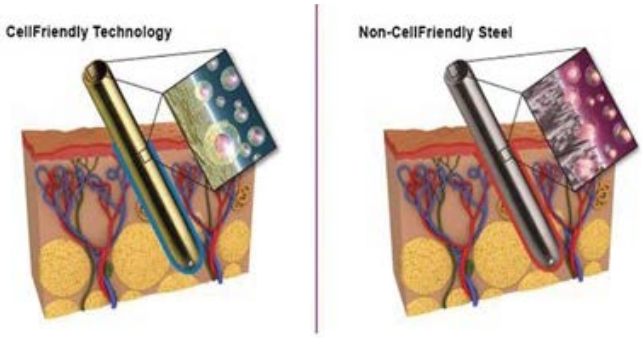
Luer lock filters



Infiltration cannula



Lipoaspiration cannula



Cell-friendly technology

Super Luer-lock technology

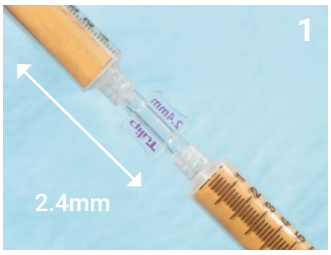
Surgical Technique.

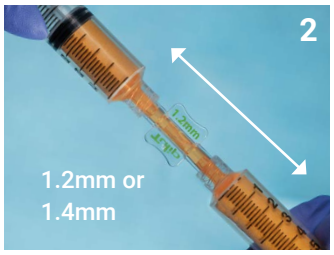
Harvesting adipose tissue

1. Infiltrate the harvest site (subdermal fat) with 20/40 ml of tumescent solution (saline, adrenaline, and lidocaine) using the appropriate cannula.
2. Harvest adipose tissue using the appropriate Carraway harvester cannula by means of syringes equipped with syringe locks to facilitate and speed up harvesting.
3. Gravity decant the adipose tissue into the syringe for 3 to 5 minutes.
4. Expel the fluid that is below the fat.
5. Use a GEMS Anaerobic Transfer 2.4 mm to transfer the decanted adipose tissue into a single 20 ml syringe.

Emulsification

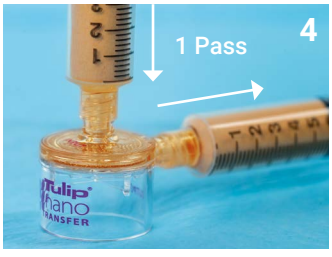
1. Connect the 20 ml syringe containing adipose tissue to an empty 20 ml syringe via the Transfer 2.4 mm.
2. Pass the adipose tissue 30 times from syringe to syringe for initial emulsification to obtain macrofat (see Fig. 1).
3. Repeat the above step with Transfers 1.4 mm and 1.2 mm to obtain the microfat (see Fig. 2).
4. The adipose tissue is ready to be processed into nanofat.





Nanofat

1. Take the syringe containing the previously emulsified adipose tissue, connect it to the upper part of the NanoTransfer (see Fig. 3), connect an empty syringe to the side part, and make a single transfer of material to obtain nanofat (TNF) (see Fig. 4).
2. Use the GEMS Anaerobic Transfer to transfer the amount of nanofat into 10 ml syringes and inject.



Ordering informations.

/ IntraGraft Fat
Disposable kit for autologous adipose tissue harvesting and sizing

Ref.	Description
KIG1	IntraGraft Fat - Disposable kit for autologous adipose tissue harvesting and sizing

Assembled Kit composition	Q.ty
Tumescent Infiltrator SuperLuerLok 2.1mm x 15cm	1
Carraway Harvester SuperLuerLok 2.1mm x 15cm	1
Johnnie Snap 20cc	1
Disposable Nano Fat Transfer - 90 degree - Generation 2	1
Single-Use Transparent 2.4mm Transfer - Female to Female ***Luer Lock***	1
Single-Use Transparent 1.4mm Transfer - Female to Female ***Luer Lock***	1
Single-Use Transparent 1.2mm Transfer - Female to Female ***Luer Lock***	1
Harvesting Syringes, BD 10cc	1
Injection Syringes, BD 20cc	2
Injection Syringes, BD 50cc	1

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