

FROM THE EXPERTS
IN REGENERATIVE MEDICINE

THE FIRST AND ONLY PROCEDURE SET
THAT INCLUDES THE INNOVATIVE
NANOTRANSFER™ TECHNOLOGY

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RECONSTRUCTIVE
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CHRONIC
WOUNDS



GYNECOLOGY



ANAL FISTULAS

SVF and Regenerative Medicine

Using a patient's own adipose tissue to heal represents a major paradigm shift in clinical care. Once considered purely experimental, it is now a well-recognized and accepted practice backed by numerous clinical cases and continuously advancing scientific study. Adipose tissue-derived stem cells (ASCs) are currently being used in clinical settings for various applications for human patients:

aesthetic-reconstructive surgery; orthopedics; skin & anti-aging; chronic wounds and pain, etc...

Adipose Tissue is rich in regenerative factors owing to the presence of Stromal Vascular Fraction (SVF). SVF consists in a heterogenous population of cells (stem, stromal, pericytes, fibroblasts, endothelial, immune, etc.) with multipotent capabilities. It is this population of cells, working in combination with the biological scaffolding inherent in Adipose Tissue, that stimulate the rejuvenation and regeneration of tissue. [1]

The Tulip GOLD Set for Regenerative Medicine procedures

is a unique solution that includes all instruments necessary for a complete regenerative medicine procedure that can be performed in an ambulatory setting, with local anesthesia and in just a few minutes.

The protocol is simple and fast and consists of

- 1) harvesting a small quantity of fat which is then
- 2) processed using the desired size Tulip transfer or NanoTransfer™ and
- 3.) re-injected in the patient site to be treated.

In addition to the cannulas necessary for preparing and harvesting fat, the Set includes 3 Tulip transfers sizes (2.4mm, 1.4mm and 1.2mm) for mechanical emulsification; plus, **it is the ONLY Set with Tulip's proprietary NanoTransfer™ technology**, which delivers SVF that is injectable with 27G and 30G needles – ideal for improved patient comfort in all dermal and hair injections as well as small joint targeted applications in orthopedic medicine.

In comparison to the leading lipo-transfer product on the market, the Tulip GOLD Set is superior in every way:



Easier to Use

Tulip GOLD Set has less parts and less complications than the leading products



68% Less Time



67% Less Volume Harvested



Smallest Level of Injectability

Can inject through a 27g or 30g needle



Better Material Consistency

in three different applications



3X More Cells

per cc as compared to the leading competitor product



37% Cost Savings

as compared to the leading competitor product



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

The very best in regenerative medicine

Quick Start Instructions

The single-use GEMS NanoTransfer™ is a proprietary (patent-pending) single-use device designed to uniformly size harvested adipose tissue so that it is easily injected with 27g and 30g needles. This processed tissue is often referred to as Nanofat.

Acquire Adipose Graft

Infiltrate harvest site (subdermal fat) with tumescent solution using a 2.1 mm Tulip Gems Infiltrator on a 20cc syringe. Harvest subdermal fat (15-20cc) using a 20cc syringe attached to a 2.1mm Tulip GEMS harvesting cannula, equipped with a 20cc GEMS Johnny Snap. Gravity decant harvested specimen for 3 minutes in syringe. Expel infranatant fluid from beneath the graft. Use sterile 2.4mm GEMS Anaerobic Transfer to transfer the graft to a sterile 20cc syringe leaving the supernatant free lipid (clear yellow oil) in the harvesting syringe. Do not discard 2.4mm GEMS transfer.

Pre-Emulsify (2.4mm)

Attach the sterile syringe holding the graft to another sterile 20cc syringe using the 2.4mm Tulip GEMS Anaerobic Transfer. Manually force the graft back and forth between syringes 30 times to initiate emulsification. (See Fig.1)

Size Down (1.2mm / 1.4mm)

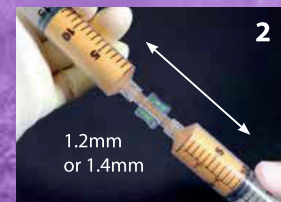
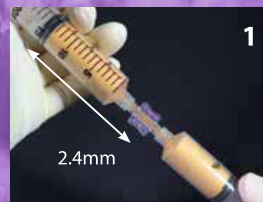
Replace the 2.4mm transfer with a GEMS 1.4mm Anaerobic Transfer. Manually force the graft back and forth between syringes 30 times to further size

down the graft consistency. (See Fig. 2)

Repeat the process with a GEMS 1.2mm Anaerobic Transfer. Adipose graft is now ready to pass through the GEMS NanoTransfer™.

Final Pass Through the GEMS NanoTransfer™

NOTE: The input port is the top of the NanoTransfer™. The output port is on the side of the cylinder. Both are labeled. To obtain the Nanofat, attach the syringe containing the graft to the input port of the NanoTransfer™, (See Fig. 3) and firmly transfer the graft into the receiving syringe of the same size. (See Fig. 4) Using a GEMS anaerobic transfer, pass the Nanofat from the collection syringe into the desired injection syringes (1cc recommended). (See Figs. 5-6)



PROCEDURE SET FOR REGENERATIVE THERAPY: 1 GEMS Tumescent Infiltrator 2.1mm x 15cm, 1 GEMS Carraway Harvester 2.1mm x 15cm, 1 GEMS Johnny Snap 20cc, 1 GEMS NanoTransfer™, 1 GEMS Anaerobic Transfer 1.2mm, 1 GEMS Anaerobic Transfer 1.4mm, 1 GEMS Anaerobic Transfer 2.4mm, 4 Syringes 20 cc BD, 4 Syringes 1 cc BD, 4 Caps Syringes BD