

# 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