



NanoTransfer Set™ Generation I

Quick Start Instructions

NanoTransfer Diagram



The Tulip NanoTransfer is a proprietary (patent-pending) device designed to uniformly size harvested adipose tissue so that it is easily injected with 27g and 30g needles. A proprietary, single-use cartridge is housed in the NanoTransfer. For more information on the NanoTransfer system and/or uses of nanofat, please call or email a Tulip representative.

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Acquire Adipose Graft

- Infiltrate harvest site (subdermal fat) with tumescent solution using a Tulip 2.1mm GEMS infiltrator on a 20cc syringe.
- Harvest subdermal fat (15-20cc) using a 20cc syringe attached to a Tulip 2.1mm GEMS harvester, equipped with a 20cc GEMS Johnnie Snap.
- Gravity decant harvested specimen for 3 minutes in syringe.
- Expel infranatant fluid from beneath the graft.
- Use sterile 2.4mm Tulip (disposable or reusable) anaerobic transfer to transfer the graft to a sterile 20cc syringe leaving the supernatant free lipid (clear yellow oil) in the harvesting syringe. Discard harvesting syringe. **Do not** discard 2.4mm Tulip transfer.

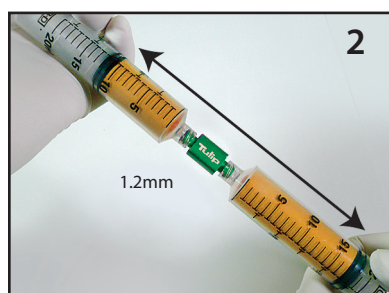
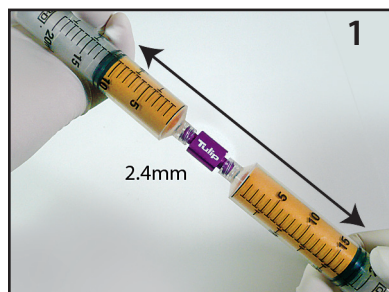
Emulsify (2.4mm)

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

Size Down (1.2mm)

- Replace the 2.4mm transfer with a 1.2mm Anaerobic Transfer. (Note: For fibrous tissue use the 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)
- Adipose graft is now ready to pass through the Tulip NanoTransfer.

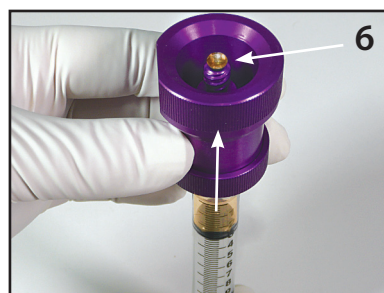
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Process Graft Through NanoTransfer

- Unscrew the sterile, large chambered NanoTransfer device to expose the inner chambers. (See Fig. 3)
- Place the sterile o-ring in the groove within the cap (input portion). (See Fig. 4)
- Place the sterile cartridge basket into the bottom (larger portion) of the NanoTransfer making sure the basket faces **upward (gold screen up)**. (See Fig. 5)
- Replace the cap on the NanoTransfer securing it firmly to prevent leakage.
- NOTE: The Input port is the top of the NanoTransfer.
- Displace the air in the chamber with PRP (or saline) by holding the NanoTransfer upside down and injecting PRP (or saline) into the Input port until it appears in the Output port. (See Fig. 6) Immediately attach an empty, sterile 20cc syringe to the Output port to prepare to receive the nanofat. (See Fig. 7)
- Attach the syringe containing the graft to the input port of the NanoTransfer, (See Fig. 8) and firmly transfer the graft into the receiving syringe. (See Fig. 9)
- Using the 1.2mm Tulip disposable transfer, transfer the nanofat into the desired injection syringes (1cc recommended). (See Figs. 10-11)
- Remove and discard cartridge and o-ring.



Please read package inserts prior to use and refer to the Tulip Medical Products IFUs (instructions for use) for cleaning and sterilization at TulipMedical.com. Device preparation and operation should take place using a sterile field protocol.