

ADINIZER®

Evolutionary Adipose Cutting Technology



REGENERATIVE POWER OF FAT

- + Small volume, closed loop system
- + Improved fat graft retention
- + Consistent and reproducible
- + Simplified tissue processing workflows

adinize verb

/ad - in - ize/

: the process of cutting fat by means of razor-sharp cutting blades. Adinizing reduces blunt force trauma to adipose tissue while sizing fat tissue to varying sizes.

Why is Adinizing Better?

Based on precision engineering and physics, the Adinizer® was developed with a purpose – to reduce trauma to the fat graft, while simplifying fat processing methods. Cutting fat with the Adinizer is a new mechanical processing method that offers higher **fat graft retention with greater cell viability based on the reduction of pressure and force.**

The Adinizer gives practitioners more predictable patient outcomes based on a simplified, consistent, adjustable re-sizing method that exerts less pressure and damage to the adipose tissue complex.

When adinizing, the fat is displaced across a large surface area prior to passing through razor sharp cutting ports. Each cutting port features 16 razor sharp cutting edges engineered to resize adipose tissue through different sized discs providing optimally re-sized aliquots of fat tissue. Based on the principal of Poiseuille's Law, the Adinizer greatly reduces the pressure that's placed on adipose tissue when compared to traditional luer-to-luer lock-based systems, producing a healthier and accurately resized fat graft.

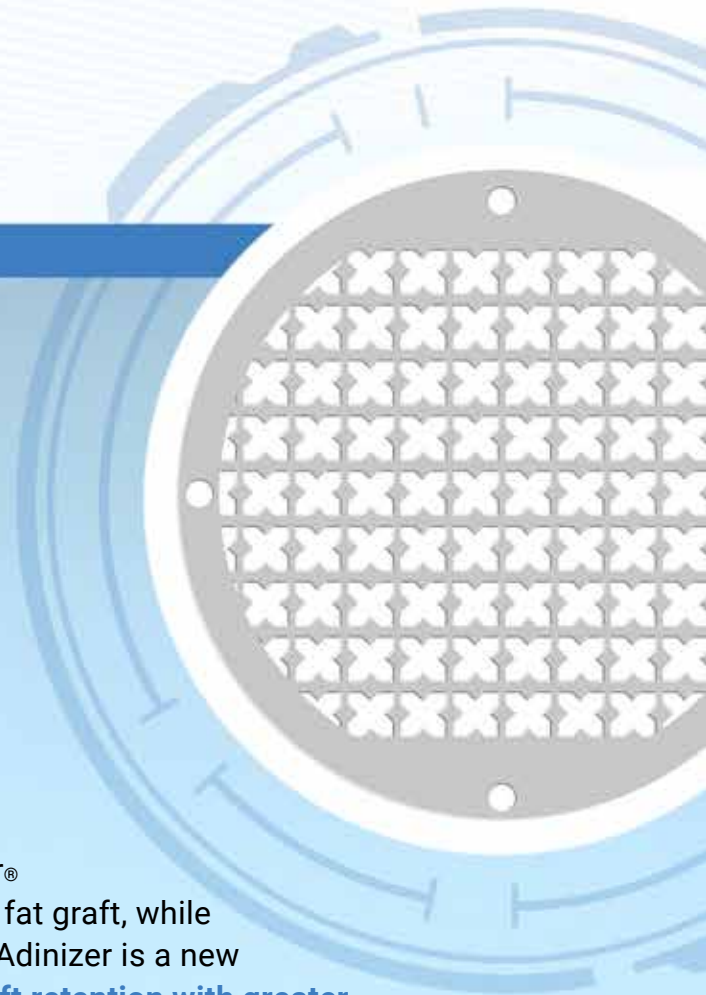
ADINIZING vs emulsification

Adinized fat is not an emulsified fat. Adinizing and emulsification are different methods for processing / fragmenting of adipose tissue. Adinizing cuts fat tissues while emulsification squeezes fat through LUER-LOCK connectors with forced pressure causing unnecessary damage to the adipose tissue complex.

Consistency.

Reproducibility.

Patient Outcomes.



Regenerative Fat Processing

The power of stromal concentrate

Stromal concentrate (SCx) allows you to amplify any tissue-based regenerative treatment. It provides a physical scaffolding for regenerative cells while preserving the stromal niche that lies within the ECM.

SCx is all-natural, autologous matrix that promotes neo-vascularization through the time release of regenerative growth factors. The release of these bio-active stromal cells is responsible for the bio-chemical and bio-mechanical cues necessary for tissue regeneration and engraftment. SCx is an excellent facilitator of cell-to-cell communication and plays a critical role in the regenerative healing cascade.

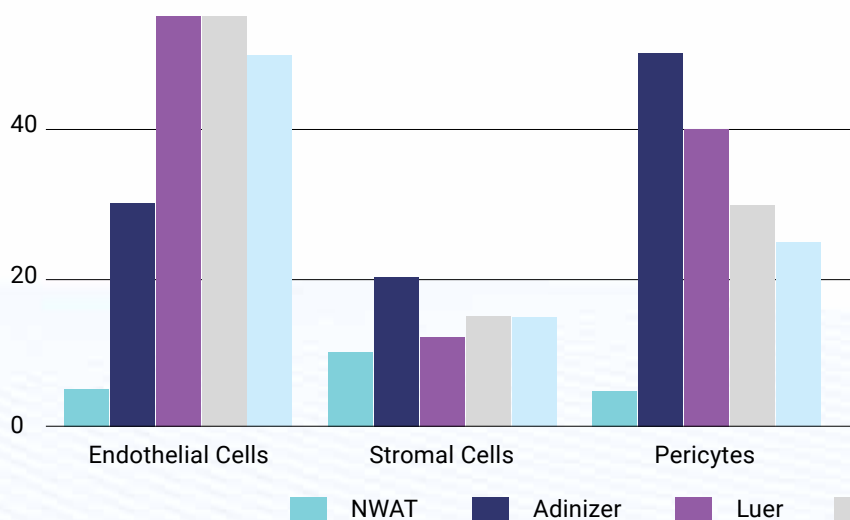
Concentrating adipose tissue is a simple, FDA-compliant, mechanical method that produces a high yield of viable high-density fat, stromal cells, growth factors, cytokines, secretomes, and fractionated extra cellular matrix (ECM).



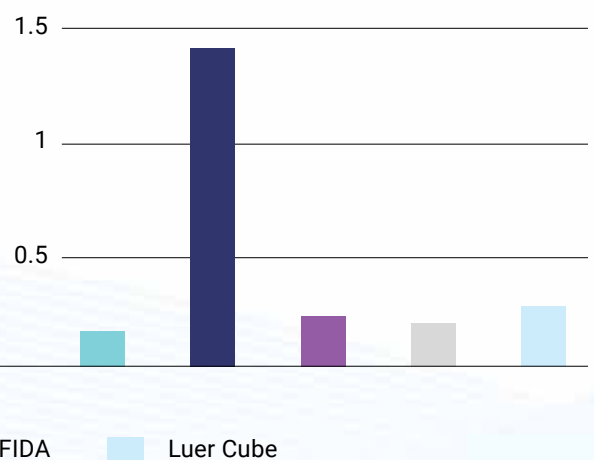
2019 iFATS Nanofat Competition

The Adinizer Won Best in Class in the nanofat competition

CD45-Cells



CFU-F (%)



One System, Multiple Fat-Sizing Options & Treatments



4000um

Macro Fat: 2-3 passes. Commonly used to **homogenize fat for breast and buttocks** with smooth injectability.



2400um

Milli Fat: 2-3 passes. Commonly used for **deep tissue planes, bone onlay.**



1200um

Micro Fat: 2-3 passes. Commonly used of **superficial fat compartments**, mid to deep dermis, lips, fat pads, nasolabial folds, jowls, temple, deep vertical lines.



600um

Nanofat: 10-15 passes for 27g injectate. Commonly used for **intradermal injections, rhytids, lower lids, tear troughs, perioral rhytids.**



400um

Stromal concentrate, or Neofat. Commonly used for **stimulating NEO-vascularization of milli and micro fat.** Applicable for many other regenerative applications.

MARKETS

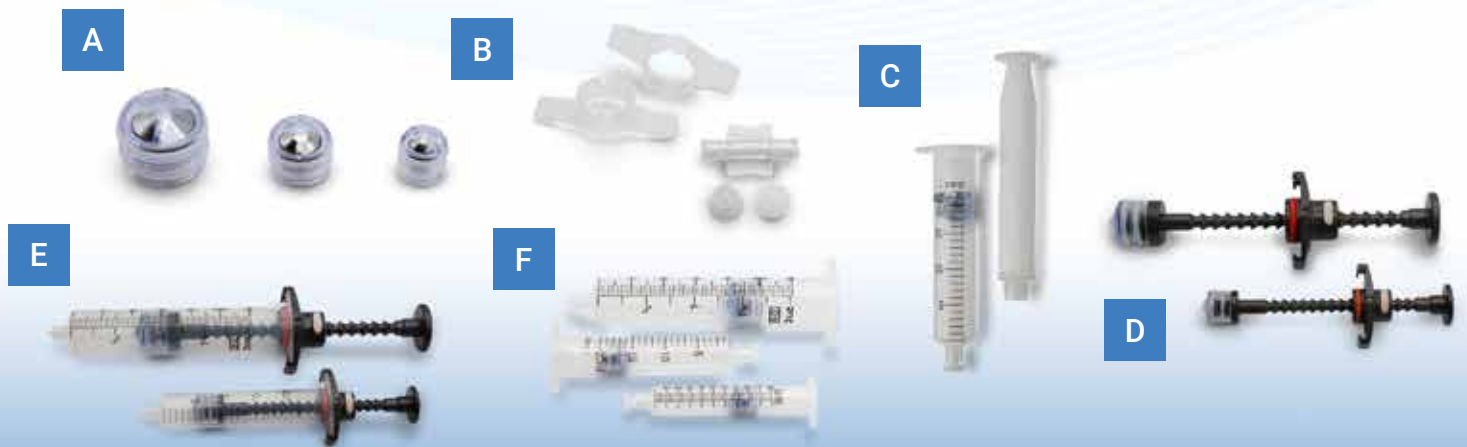
Aesthetics

Facial fat grafting
Skin rejuvenation
Hair restoration
Sexual beautification
Fine rhytids

Soft tissue breast touch ups
Scar revision
Bar code lips
Tear troughs
Hands



System Components



- A. PISTON LOCKS (PL) comes in 10cc, 20cc, and 60cc configurations. The PL converts any standard BD brand syringe into a closed-loop processing container, and works in conjunction with the SMART LOCK (D) and PISTON LOCK PLUNGER (C). It allows for closed centrifugation, filtration, and removal of oil, anesthetics, and blood debris from tissue graft.
- B. SYRINGE WING adapters provide better leverage, grip, and lessens fatigue when processing adipose. Syringe caps and luer transfer included in all kits.
- C. PISTON LOCK PLUNGER: Proprietary plunger (C) that works with PISTON LOCK (A) for resizing and moving fat between syringes.
- D. SMART LOCK: Works in conjunction with the PL (A) and plunger components. The SMART LOCK allows for syringe based liposuction by creating an adjustable vacuum. It is autoclavable and it comes in sizes 20cc and 60cc. All SMART LOCKS work with BD Brand ONLY syringes.
- E. Assembled PISTON LOCK (A), SMART LOCK (D) with BD brand syringes.
- F. BD Syringes with the SMART LOCK (D) disassembled from the PL (A) creating a closed bio-processing container for concentrating adipose.

Reconstructive

- Breasts
- Radiated burns
- Burns
- Chronic wounds
- Scar revision

Orthobiologics

- Osteoarthritis
- Joint and tendons
- Soft tissue injuries
- Plantars faciitis
- Fat pad atrophy



ADINIZER SHEETS

- 4000um
- 2400um
- 1200um
- 600um
- 400um
- 100um

4 per sheet; individually sterile

SMART KIT BASIC

- 10, 20, 60cc Options
- Includes:
 - Piston Locks and Plunger
 - Syringe Wing Adapters
 - Syringe Caps
 - Luer to Luer Transfer

SMART KIT PRO

**SMART KIT PRO =
BASIC KIT + ADINIZERS**

- SMART KIT NANO
- SMART KIT SCx



Offering best-in-class biological processing and delivery systems for autologous tissue therapies

MedWell is the exclusive partner/distributor of the **Adinizer®**



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