

BENEFITS

Why Use Adipose?

Adipose is used in regenerative medicine procedures because mesenchymal stem cells can be isolated from almost every tissue in the human body. Adipose tissue is highly vascularized, and every blood vessel in the body has mesenchymal cells in these locations. These perivascular cells can be summarily called pericytes. Adipose-Derived MSCs are used therapeutically because they undergo homing to sites of inflammation or tissue injury, and they secrete massive levels of bioactive agents.

- Minimally invasive
- Minimal to no downtime
- Speeds up and promotes healing
- Natural and organic, autologous from your own body
- Less side effects when compared to steroid injections or surgery



A Patient's Guide To

ADIPOSE

FOR REGENERATIVE PURPOSES



ADIPOSE TISSUE A HIGH DENSITY SOURCE OF STEMCELLS



The physician will take an adipose graft from an area on the body that you usually store fat in like your abdomen, love handles, hip, or thighs. Special cannulas are used to inject numbing medication and for aspirating your adipose. These special cannulas preserve the integrity of the fat cells during aspiration. Keeping the integrity of the cells is essential because we want the mesenchymal stem cells that are found on the blood vessels to be intact and ready to aid in the healing process. The adipose will be processed and concentrated to remove the blood, oils, and lipids from your sample. The final injectate of concentrated adipose tissue will be injected into the site of injury or illness.

4 min
Processing

12 wks
Healing Cascade

Limited
Downtime

FDA
Cleared



WHY WOULD YOU USE ADIPOSE?

Abundant

Adipose cells are rich with blood vessels. Mesenchymal Stem Cells (MSC) live on the outermost wall of these blood vessels. Therapeutic adipose cells supply millions of MSCs per injection.

Easy to Obtain

Processed adipose is readily available and accessible in the subdermal fat deposits found in the abdomen, love handles, hip, and thigh areas.

High Cell Counts

Lipoaspirate contains 100s of millions of cells per milliliter. 1 to 15% of your mono-nucleated cells are MSCs. Concentrated adipose will have millions of MSCs available for regenerative purposes.

Limited Decline of MSCs with Age

MSCs found in adipose do not show a decline of function or in quantity as we age.

Acts as a Matrix

The autologous adipose (your own fat) is a native 3D biologic scaffold ideal for other cells to bind with.

Post Treatment Care

This procedure takes about 1 -2 hours in the clinic under sterile conditions. When you leave, keep the bandage on the aspiration site for 48 hours then cover with a regular band-aid for another 2-4 days until the site seals over. Please stay out of the bathtub, hot tub, or pool for the 48 hours after your procedure. You may shower.

Healing Process

The injection site may be very sore for the first week. Under your doctor's guidance, keep the body moving, or it will stay sore longer. Motion makes it ache less and the soreness go away faster. Pain medication may be prescribed if necessary, but most patients feel relief with ice and or Tylenol. Within 2-4 weeks after treatment, many patients begin to feel a decrease in pain levels, better mobility, and increased functionality.

The entire healing cascade may be active for up to 12 weeks, while the MSCs signal for healing cells to proliferate then remodel the injured area. Patients can expect to see significant improvement in symptoms and many report gradual improvement return of function. Two to three treatments may be needed to obtain optimal results.

Obtaining Adipose

A small incision is made at the aspiration site. Anesthesia is used to numb the area and prepare the adipose to be aspirated. Once the area is numb, a suction syringe is connected to a harvesting cannula to aspirate your adipose. The physician will manually collect about 25-50 mLs of adipose to then process and concentrate into a final injectate.

