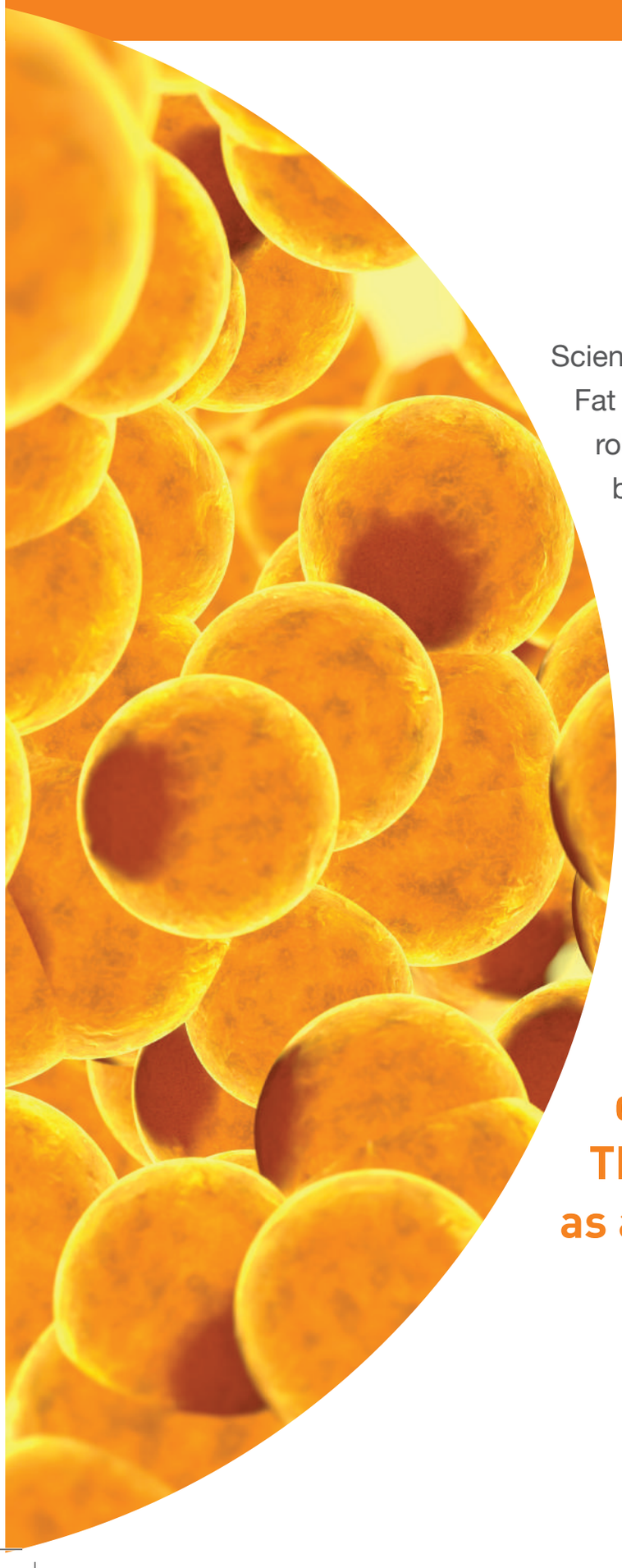
LIPOGEMS

THE NATURAL WAY TO HEAL USING YOUR OWN POWERFUL FAT

A patient's guide to experiencing the difference

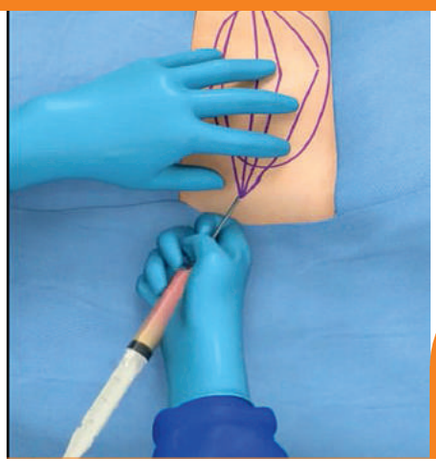
THE POWER OF FAT



Scientifically, fat is called adipose tissue. Fat is a versatile tissue that plays essential roles in the way our body functions, but one of the most remarkable is the role that fat may play in how we heal. Many studies over several decades have been conducted exploring the healing potential of fat.[1,2,3]

Fat contains network of blood vessels, connective tissue, and important regenerative cells including adipose-derived stem cells.[4,5,6] The tissue works together as a functional unit.

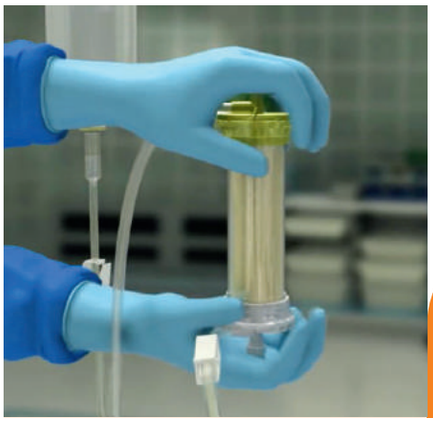
LIPOGEMS®: EXPERIENCE THE DIFFERENCE



1

Fat harvesting procedure

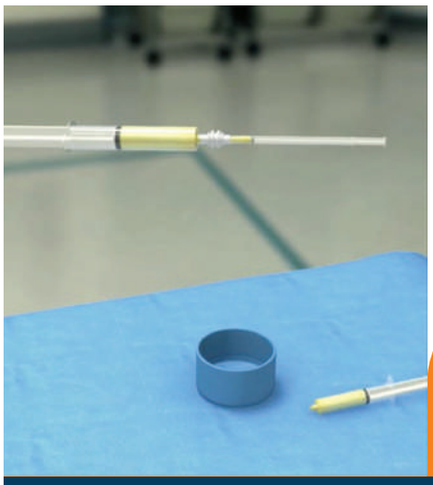
In a **minimally invasive and immediate procedure, your physician will make a tiny puncture** through your skin and collect a small amount of fat from either your midsection or “love handles”.



2

Gently processing your fat using saline

Next, your collected fat will be processed in the unique Lipogems device using only sterile saline solution to wash away any impurities. During this process, **your fat is washed, rinsed, and resized into smaller clusters while keeping the natural beneficial properties of your fat.**



3

Lipogems is delivered into the body area(s) to allow you to heal the natural way

Since the Lipogems process micro-fragments your fat, the size of Lipogems tissue is ideal to facilitate healing in the treatment site. **Your physician will then use a small needle to inject the Lipogems tissue into the treatment site.**

DID YOU KNOW?

Fat is crucial for health. It contains numerous cells to fuel and maintain the body’s needs.

Fat contains many reparative cells that help a healing environment in response to a tissue injury.

Fat can be easily accessed and collected through a minimally invasive procedure and local anesthesia.

Research has shown that as a person ages, their fat maintains its reparative properties unlike other tissues such as bone marrow, which may lose healing capacity with age.[7,8,9]

LIPOGEMS®: HEALING THE NATURAL WAY

Simple and quick procedure

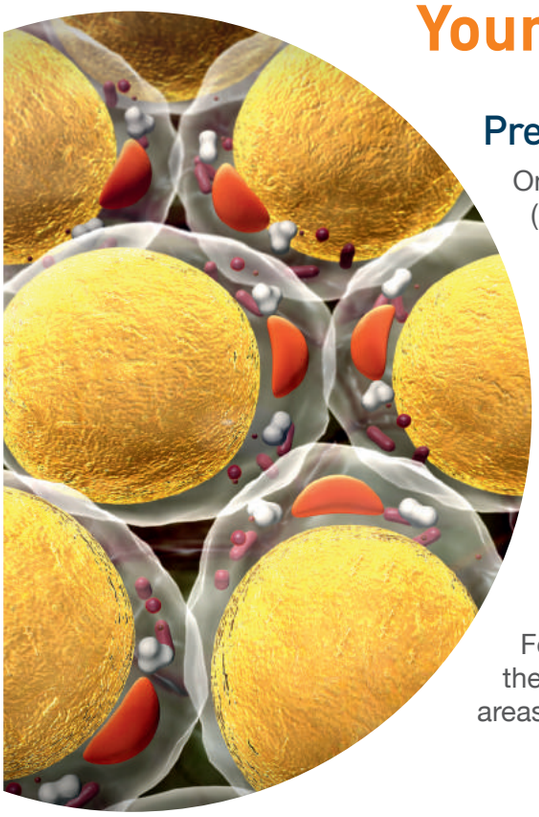
The minimally invasive procedure can be performed in less than an hour in the physician's office or in a surgical setting.

Best quality tissue

Your own fat has the best quality tissue and there is minimal risk of rejection and infection.

Pure

Only uses saline to wash away the impurities such as blood, oil, and dead cells.



Your own powerful fat

Preserves all the reparative cells inside of your fat tissue

One benefit of Lipogems is that it keeps all the special cells within the fat (including adipocytes, stem cells, pericytes[10, 11, 12], and other cells) without jeopardizing the cell structure and function[13, 14]. These cells work harmoniously the same way they do normally in the body. This allows your body to heal the natural way by repairing, reconstructing and replacing damaged or injured tissue.

Optimal size

The device gently resizes the fat tissue to an optimal size that is easy for injection and also allows for greater interaction with the treatment site to help repair, reconstruct, replace the damaged or injured tissue.[8]

May be used in multiple areas

For patients that suffer from conditions in multiple parts of their body, the Lipogems device can easily process the fat tissue to be used in those areas. (Note: The patient must have enough fatty tissue to be processed.)

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2016 Orthopedics This Week Sports Medicine Technology Awards

ARE YOU A CANDIDATE?

You might be a candidate if:

- **You suffer from an injury or ailment** that limits you normal daily functioning or physical activity
- **You have painful joints with limited range motion**, such as your knee, ankle or shoulder
- **You have a soft tissue defect in your tendons, ligaments, and/or muscles**
- **Treatment options**, such as physical therapy, NSAIDS, or steroid injections **have not provided you with significant relief**
- **You would like to explore Lipogems** as a minimally invasive part of your surgical intervention
- **Your doctor determines Lipogems may be used in addition to your surgery**

Are there reasons that you may not be a candidate for Lipogems?

- You currently have a systemic infection
- You suffer from an autoimmune disease
- You currently are taking blood thinners or anti-coagulation medication
- You are being treated for any other malignancy or blood borne disease
- You have an allergy to Lidocaine
- You are currently breastfeeding or plan to begin breastfeeding in the near future
- You have a hematologic condition

Some medications can cause undesirable side effects that could affect your procedure (e.g. blood thinners, anti-coagulants, immunosuppressive medications, etc.). Talk to your physician about the medications you are currently prescribed and/or taking.

PREPARING FOR YOUR PROCEDURE

Recommendations for the day of the procedure:

Wear comfortable clothes

Your physician may have you change into a disposable gown, but just in case it is advised to wear clothes that you do not mind getting a little bit wet from the saline that is used in the injection of anesthetic fluid.

Stay hydrated and eat a balanced meal

Good nutrition can also help to optimize the healing process. However, if you are having Lipogems in conjunction with a surgical procedure (such as arthroscopy), make sure to talk to your physician about eating or drinking the day of the procedure.

Relax!

25,000 CASES IN US AND WORLDWIDE

More than 25,000 Lipogems procedures have been performed worldwide, and your physician can speak with you about the possible outcomes associated with this procedure. You and your physician should discuss whether Lipogems can be an option for you.

WHAT YOU MAY EXPECT AFTER THE PROCEDURE?

Because Lipogems is derived from your own fat, and no other articles are added, there is a minimal risk of infection or immune reaction.

The Lipogems procedure is performed with sterile technique as a point-of-care therapy. However, as with any kind of injection or procedure, there is always a minimal risk of infection. If you experience any side effects associated with an infection at the injection or tissue collection site, contact your healthcare provider immediately.

General recommendations:

- **Your doctor will help determine what activities you can perform and put you on a rehabilitation plan.** It is generally recommended that you should not engage in strenuous activity for at least 2 weeks following the procedure.
- **You may experience mild to moderate swelling and/or local inflammation** (that has been previously described as “fullness” or “stiffness”) at injection site and/or site of the fat collection area for up to 4-5 days following the procedure.
- You may be given some prescription or over-the-counter pain medication and should **follow your doctor’s recommendations.**
- **Ice packs may be used** to reduce local inflammation/swelling.
- **A compression garment or tape maybe given to wear** for 1-2 days after the procedure.
- It is recommended that patients should **avoid taking any steroids** following the Lipogems procedure for an amount of time determined by the physician.
- **Some patients may have some bruising** at or around the site of fat tissue collection.
- **Individual results vary.** Not all patients will have the same procedure recovery and activity.
- **Give your body time to heal.** Everybody heals differently.

Rare or uncommon side effects

- A “ball-like” collection of fluid and/or blood (seroma or hematoma) are rarely seen, and you should contact your healthcare provider if this occurs.
- An infection in the harvesting area is extremely rare. If you notice increased pain, swelling, redness, fever, or oozing from the tissue harvest area, contact your healthcare provider immediately.

LIPOGEMS

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