YOUR CELLS
FOR YOUR
HEALTH
LIPOGEMS ENHANCES THE BODY NATURAL CAPACITY TO HEAL USING THE POWER OF INNOVATIVE SCIENCE AND BIOTECHNOLOGY
LIPOGEMS INTERNATIONAL SPA is an Italian based company with its head office in Milan which operates globally in the biotechnology and regenerative medicine sectors.

We produce and sell advanced medical devices for the processing of lipoaspirated adipose tissue for autologous use.

Through our Ethical Code and the close collaboration with the most important national and international research centers we guarantee a rigorous approach to patients and healthcare professionals.
WE ARE OPERATING IN MANY COUNTRIES AROUND THE WORLD THROUGH A GLOBAL NETWORK OF AGENTS AND DISTRIBUTORS
OUR PRODUCTS ARE USED WORLDWIDE IN THE TREATMENT OF VARIOUS PATHOLOGIES

ADVANTAGES

- **Long lasting** effect
- Encourage the natural tissue regeneration
- Improve patients' quality of life
- Excellent **cost-benefit** balance for the hospital
THE LIPOGEMS® SYSTEM IS A STERILE SINGLE-USE MEDICAL DEVICE INTENDED FOR THE CLOSED-LOOP PROCESSING AND TRANSFERRING OF AUTOLOGOUS ADIPOSE TISSUE IN A SINGLE SURGICAL STEP

LIPOGEMS® is a non-expanded and microfragmented adipose tissue graft that is injected into damaged areas of the body in order to provide a cushion and structural support while promoting a healing environment.

LIPOGEMS® preserve the natural healing properties of adipose tissue by maintaining the fat’s Vascular Stromal Niches.
LIPOGEMS® IS AN INNOVATIVE TECHNOLOGY THAT HARNESSES THE INNATE HEALING CAPABILITIES OF ADIPOSE TISSUE

The LIPOGEMS® process washes away inflammatory blood and oily residues, and progressively microfragments adipose tissue clusters through minimal manipulation.

The unique process employs the LIPOGEMS® device - a precisely engineered and patented, closed-loop system that provides gentle, enzyme-free mechanical processing of the adipose tissue.
THE PROCEDURE

A SIMPLE AND EFFECTIVE PROPRIETARY TECHNOLOGY TO HARVEST, PROCESS AND DEPLOY LIPOASPIRATES IN A SINGLE SURGICAL STEP, RESULTING IN A MINIMALLY MANIPULATED TISSUE FOR APPLICATION IN REGENERATIVE MEDICINE

The LIPOGEMS® procedure involves 3 phases: minimal adipose tissue harvesting, novel, mechanical processing of the adipose tissue, and injection into the treatment site.

The LIPOGEMS® point-of-care procedure is minimally invasive, takes less than 1 hour, and can be performed in a surgery center or an office setting.
LIPOGEMS® PRESERVES Viable Elements with Pericyte Identity that, after an injury, detach from the capillaries and gradually convert into activated MSCs.”

**Damage Response Mechanism**

**Activated MSCs secrete**
- Growth factors
- Cytokines
- Exosomes
- Proteins
- Peptides

**Activated MSC**

**IMMUNO-MODULATORY**
- Angiogenic
- Anti-apoptotic
- Mitotic
- Anti-scarring

**TROPHIC**

**ANTI-MICROBIAL**


LIPOGEMS® CONTAINS MORE MSCs, PERICYTES AND TRANSITIONAL PERICYTES THAN LIPOASPIRATE. DUE TO THE INTACT VASCULAR STROMAL NICHE LIPOGEMS® ACTS A NATURAL SCAFFOLD PRESERVING ACTIVATED MSCs

LIPOGEMS® samples show a maintained vascular stroma consisting of slit-like capillaries containing vascular channels with evident lumina; on the contrary, conventionally treated fat tissue shows compressed and distorted microchannels.

THE USE OF LIPOGEMS® ENCOURAGES THE NATURAL REGENERATION OF TISSUE AND CAN BE USED IN MANY PATHOLOGIES. THE MAIN APPLICATION FIELDS ARE

- ORTHOPAEDICS
- SPINE
- PAIN MANAGEMENT
- WOUND & VASCULAR
- COLOPROCTOLOGY
- RE-CONSTRUCTIVE PLASTIC SURGERY
- GYNECOLOGY
LIPOGEMS® Cooperates with International Scientists and Well-Renowned Clinical Experts

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