LIPOCUBE ADVANTAGES

Lipocube Technology is changing the way regenerative medicine is practiced by matching the procedure results to the demand of the patient.

- Maximum regenerative cell number and viability
- Superfast processing
- Easy to use
- Closed system reducing cross contamination
- Cost efficient
- Controlled downsizing to prevent palpable and visible lumps

APPLICATIONS

The Most Common Indications in Orthopedics.

Lipocube Technology is widely used today as a potential solution to various orthopedic problems.

Due to the regenerative cell in the adipose tissue, ability to regenerate cartilage, tendons and bone, it is widely used in the treatment of Osteoarthritis (OA), chondromalacia, **achilles tendon injury**, **shoulder tendon Injury**, **partial injuries of meniscus and ligaments**, femoral head osteonecrosis.

LIPOCUBE

ORTHO

BEYOND THE EDGES OF SCIENCE TO REACH PERFECTION

Differentiate your practice with predictable outcomes with the regenerative power of fat

LIPOCUBE IS A BRITISH MEDICAL DEVICE COMPANY WHICH OPERATES GLOBALLY IN THE BIOTECHNOLOGY AND REGENERATIVE MEDICINE FIELDS.

Lipocube develops and produces medical devices to make regenerative therapies easy and accessible.

Our scientifically proven products are distributed globally and used by clinicians worldwide.

10.000+ Patients | **3.000+** Physicians | **50+** Countries

THE PRODUCT

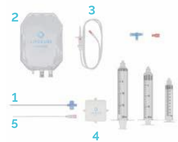
The Lipocube products allow the clinicians to create a minimally manipulated adipose tissue for regenerative purposes.

Lipocube Hybrid

- The fat is collected from the body with the fat harvesting cannula (1) in a closed system.
- The adipose tissue is washed in a closed sterile system with the help of the transfer bag (2) and transfer line (3).
- The washed fat is processed through Lipocube Hybrid (4) to obtain concentrated fat.
- The concentrated fat can be injected to the patient with the spinal needle (5).

Lipocube Nano

- The fat is collected from the body with the fat harvesting cannula (1) in a closed system.
- The adipose tissue is washed in closed system with the help of the transfer bag (2) and transfer line (3).
- The washed fat is processed through Lipocube Nano (4) to obtain micro and nano fat.
- The processed adipose tissue can be injected to the patient with the spinal needle (5).



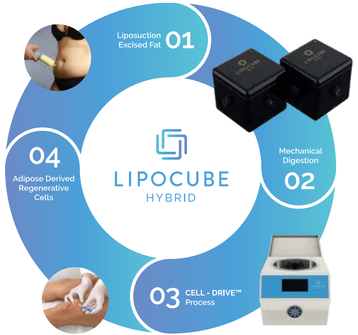
THE PROCEDURE

A simple, fast and effective technology to wash, process and concentrate regenerative cell population in a surgical step, resulting in a minimally manipulated tissue for regenerative applications.

3 Phases of Lipocube Procedure

- Washing.
- Mechanical digestion, using a closed system of blades.
- Concentrating the regenerative cells by CELL DRIVE process.

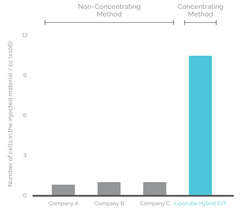
The Lipocube point-of-care procedure takes only **22 minutes** and can be performed either in an operating room or **office setting**.



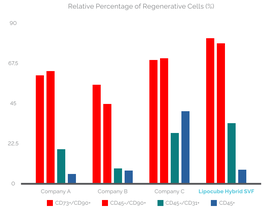
The fat tissue is mechanically fragmented using the Lipocube Hybrid in closed sterile system with specifically structured geometrical blades coupled with a flow pattern. The resulting emulsion is processed in the Cell-Drive within a predefined RCF spectrum, and the resulting regenerative cell population is trapped within a fractured surface gasket.

THE LIPOCUBE TECHNOLOGY

Lipocube Hybrid gives you **10 times more** regenerative cell compared to any other traditional method.



Nucleated Viable Cell Number Comparison



Mesenchymal Stem Cell Comparison

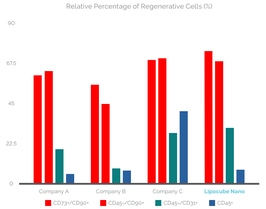
Company A *- System that gradually decreases adipose tissue clusters while removing fatty substances and blood residues.*
Company B *- Extract blood and fat residues. tissue dialysis decreases tension and damage to cell and extracellular matrix structure.*
Company C *- Washing, filtration, and size-based separation of tissue fragments are all possible with this unit.*

NON-CONCENTRATING METHODS COMPARISON

Lipocube Nano gives you more regenerative cell compared to any other non-concentrating method.

Mechanical Isolation Methods	Product Used (N=3)	Number of Cells in the Injected material. cc (x106)	Cell Viability (%)
NON-CONCENTRATING METHOD	Company A	0.84 ± 0.06	94.03 ± 0.9
	Company B	1.04 ± 0.12	96.36 ± 1
	Company C	1.02 ± 0.08	43.5 ± 0.8
	Lipocube Nano	1.2 ± 0.21	99.3 ± 0.4

Nucleated Viable Cell Number Comparison



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