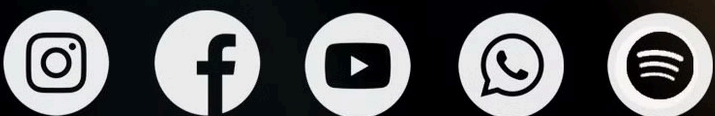


e-book

REJUVENATE
WITH STEM CELLS
FROM YOUR OWN FAT
LIPOCUBE

By *Mucio Porto*





Introduction: The Science Behind Youth

Today, the pursuit of rejuvenation is a priority for many people. With advances in science and technology, new techniques are being developed to offer more natural and lasting results. One such innovation is the use of stem cells derived from body fat to stimulate the production of collagen and elastin fibers, essential components for maintaining youthful and healthy skin.

This ebook was created to present to you, in a clear and objective way, how fat, often seen as a villain, can become a powerful ally in the rejuvenation process. Here, you will understand how fat, especially the area below the belly button, is rich in stem cells, which can be used in advanced aesthetic treatments. Get ready to discover how your own body can be the key to younger, revitalized skin, using techniques that are transforming plastic surgery around the world.



The Power of Stem Cells: What They Are and How They Work

You've probably heard of stem cells, but what exactly are they? Simply put, stem cells are cells found in various parts of our body, such as fat, brain, and even teeth. They have an incredible characteristic: the ability to transform into other types of cells, repairing damaged or aging tissues. When we suffer an injury or disease, our body activates these stem cells to regenerate lost cells. It's a natural repair mechanism that we all possess.

Now, you may be wondering: how can these cells help me rejuvenate? The answer is simple: they can transform into the cells that produce collagen and elastic fibers, two essential elements for maintaining firm, smooth, and youthful skin. And guess where one of the biggest sources of stem cells in the body comes from? Our fat! That's right, the belly fat that so many people hate is actually a gold mine when it comes to rejuvenation.

Science has proven that localized fat, especially in the area below the belly button, is richest in stem cells. These cells can be used to revitalize the skin and fight the signs of aging. When stem cells are properly extracted and prepared, they have the power to stimulate collagen production, promoting effective and long-lasting skin regeneration.

This process, which had its first studies conducted in the 1980s by Dr. Coleman in the United States, has been refined over the years.





Stem Cell Rejuvenation: A Revolution in Aesthetics

Stem cell rejuvenation is a technique that has revolutionized aesthetic procedures. Unlike traditional methods, such as temporary fillers or invasive surgeries, this approach harnesses the regenerative power of the body itself to restore the skin naturally. From the first studies in the 1980s, conducted by Dr. Coleman, to today, science has advanced significantly, and we now have the ability to apply this technology more effectively and safely.

When we talk about rejuvenation, we often think of procedures that only correct or conceal the signs of time. But with the use of stem cells, we are truly treating the root of the problem, promoting skin regeneration. The major breakthrough lies in the possibility of using these cells to stimulate collagen and elastic fibers in the skin, providing a result that is not only aesthetically pleasing but also long-lasting. What once seemed like science fiction is now a reality in clinics around the world.

The process begins with the extraction of fat from specific areas of the body, the most indicated being the region below the belly button, where the highest concentration of stem cells is found. Through gentle liposuction, under local anesthesia, we remove fat and begin the process of separating these cells. The innovation here is that we can do this right in the office, without the need for large hospital structures. After extraction, the fat is processed to separate the stem cells, which will be injected into areas that need rejuvenation, such as the face or hands.





Fat: The Unexpected Source of Youth

When we talk about fat, the first image that comes to mind is usually negative. After all, body fat is something most people want to eliminate. But what few people know is that this fat, especially the one in the area below the belly button — known as the "love handles" — can be one of the greatest allies in the rejuvenation process. Surprisingly, this area is rich in stem cells, making it a true fountain of youth.

These stem cells have a unique ability: they can transform into other types of cells, including those responsible for producing collagen and elastic fibers, which are essential for keeping skin firm and youthful. As we age, our skin loses these components, resulting in wrinkles, sagging, and other signs of aging. But with the use of stem cells extracted from fat, it is possible to reverse some of these effects and regain a younger appearance.

So, how does this process work? First, we perform a light liposuction, under local anesthesia, to remove fat from the love handles area. This fat, which could previously be considered unwanted, is then prepared to separate the stem cells. From there, we have two paths: we can use the processed fat as a filler or as a biostimulator. But the most important thing is that these cells, once reintroduced into the body, begin to act in a way that regenerates the tissue, restoring the skin's vitality.

What makes this technique so effective is the fact that we are using something natural, from the body itself, and not synthetic substances. The body recognizes these cells as its own and, therefore, rejection or adverse effects are extremely rare.





Lipocube: The Technology that Simplifies Rejuvenation

With the advancement of science, new technologies have emerged that have made aesthetic procedures more efficient and accessible. One of these innovations is Lipocube, a simple yet extremely effective technology that has revolutionized the use of fat in facial rejuvenation. Before Lipocube, the process of extracting and preparing stem cells was more complex and expensive. Today, this small device allows doctors to extract and prepare fat quickly and conveniently, without the need for sophisticated equipment.

Lipocube essentially works as a filter. After the fat is removed through a light liposuction, we place this "raw" fat into the Lipocube. The technology of the device separates the fat itself from the stem cells, preparing the material to be used effectively in rejuvenation. The process is simple: the fat enters from one side, and on the other side, a prepared, refined substance comes out, ready to be injected into the areas that need treatment.

The great advantage of Lipocube is its practicality. Instead of relying on complex and expensive equipment, which often required sending material to other countries, we can now perform the entire process in the office. In addition, Lipocube makes the procedure more affordable in terms of cost and time. Everything is done quickly and efficiently, and the patient can benefit from advanced rejuvenation without major complications.

Another important aspect is safety. Lipocube ensures that stem cells are prepared precisely, minimizing the risk of irregularities in application. This means that the fat that will be injected into the face, hands, or any other area of the body will be properly filtered and processed, resulting in a more natural and uniform effect.



Microfat and Nanofat: The Difference Between Fillers and Biostimulators

In fat rejuvenation, the same can be processed in two ways, each with its own goals. **Microfat** is the fat processed to preserve its fat cells intact, making it ideal as a natural filler to restore volume in areas of the face that have lost fat over time. Microfat, for example, can be injected into the cheeks, nasolabial folds (the well-known "marionette lines") or even the hands for a younger and fuller appearance. Its advantage over synthetic fillers, such as hyaluronic acid, is its natural and permanent nature. About 70% of the injected fat remains in place for many years, providing a long-lasting result with less need for touch-ups.

Nanofat, on the other hand, is a type of fat that is processed in a more refined way, transforming it into a liquid rich in stem cells but without the fat cells. Unlike microfat, nanofat is not used to add volume, but as a **biostimulator**, regenerating the skin and stimulating the production of collagen and elastic fibers. Nanofat is ideal for delicate areas, where the goal is not to fill, but to improve skin quality. We use nanofat, for example, in dark circles, on the neck or in general skin rejuvenation treatments.

The combination of **microfat** and **nanofat** offers a complete and personalized treatment. While microfat restores lost volume, nanofat improves skin texture and firmness. This comprehensive approach results in natural rejuvenation, treating both the structure and the surface of the skin effectively and durably.





The Procedure: How Fat Is Processed and Applied

Fat stem cell rejuvenation is a precise and structured process, performed with light liposuction in the office, under local anesthesia. The area below the navel, rich in stem cells, is the ideal area for extraction. The fat is then purified, removing impurities and larger cells, to ensure the purity of the material. The Lipocube facilitates this step, filtering and refining the fat quickly and efficiently.

After purification, the fat is divided into microfat and nanofat. Microfat is used to fill areas that have lost volume, such as cheeks or furrows around the mouth. Its natural nature guarantees longer-lasting results than synthetic fillers.

Nanofat, on the other hand, is a liquid rich in stem cells, used for biostimulation, regenerating the skin and stimulating the production of collagen and elastin. It can be injected into the superficial layers of the skin or applied in conjunction with lasers or microneedling to stimulate the production of collagen and elastin.

The entire process - from extraction to application - takes just a few hours, with rapid recovery. The results are visible after a few weeks, with continuous improvement of the skin over the months. The combination of volume and regeneration provides complete and long-lasting rejuvenation.





Rejuvenation with Natural and Lasting Results

One of the major advantages of rejuvenation with stem cells extracted from fat is the natural and long-lasting appearance of the results. Unlike traditional techniques that simply "stretch" the skin or add temporary volume, the use of microfat and nanofat acts at the cellular level, promoting regeneration that aligns with the body's natural process.

When we use **microfat** as a filler, we are restoring lost volume over the years in a gradual and balanced way. The injected fat is rich in healthy cells that integrate into existing tissues, providing a result that mimics the original appearance of the skin. This ensures a younger look without that "stretched" or artificial look that we often see in other procedures. Additionally, since the fat is from the patient themselves, the risk of rejection or allergies is practically nonexistent.

On the other hand, **nanofat** acts as a biostimulator, triggering the production of collagen and elastic fibers in the deeper layers of the skin. This results in firmer skin with better texture and reduced visibility of fine lines and wrinkles. Nanofat does not fill areas of volume loss, but it improves the quality of the skin, making it younger and healthier over time.

Another great advantage of this method is its **durability**. While synthetic fillers, such as hyaluronic acid, are absorbed by the body in a period of months, microfat remains for years. About 70% of the injected fat remains in place for the long term, providing continuous rejuvenation. Nanofat, in turn, acts by promoting cell renewal through stem cells, which means that the results of improved skin quality can last for several years.





Real Benefits: What to Expect from Lipocube Rejuvenation

The benefits of rejuvenation with stem cells and the **Lipocube** technology provide not only a younger look but also a higher quality of life, as the procedure is minimally invasive and offers a fast recovery.

The use of stem cells promotes natural skin regeneration. These stem cells extracted from fat stimulate the production of collagen and elastic fibers, fighting the signs of aging and repairing damage caused by time.

Microfat restores lost volume in critical areas of the face in a natural and lasting way, providing a result that mimics the original appearance of the skin. **Nanofat**, as a biostimulator, improves skin quality, providing a smoother and more uniform texture. The increased collagen production caused by nanofat brings a natural firmness to the skin, minimizing fine lines and restoring elasticity.

The procedure is minimally invasive, performed with light liposuction under local anesthesia. Recovery is fast, with only a few days of rest, allowing the patient to resume their normal activities soon.





The Future of Rejuvenation is in Technology

Facial rejuvenation has evolved significantly, and techniques using stem cells from body fat represent a revolution. The use of one's own fat as a source of regeneration offers natural and long-lasting results, as well as less invasive and more effective procedures. The **Lipocube** technology simplifies the process of extracting and preparing stem cells, making rejuvenation accessible and safe, providing a more comfortable experience for both patients and professionals.

This technique is not limited to masking the signs of aging. **Stem cell rejuvenation** promotes true skin regeneration, stimulating the production of collagen and elastic fibers naturally. The combination of **microfat** and **nanofat** treats volume loss and skin quality, offering a comprehensive and personalized solution.

The future holds an even greater expansion of the use of stem cells, with advancements in their use and manipulation for even better results. New technologies are enhancing existing methods, making procedures faster, less invasive, and more effective.

Regenerative medicine in plastic surgery is consolidating itself as an area of great potential. The ability to use one's own body to stimulate regeneration is one of the greatest achievements of modern medicine, and rejuvenation with stem cells is just the beginning. With more studies and technological innovations, the future of aesthetic treatments may surprise us even more.

If you are looking for natural, safe, and long-lasting results, technology with fat-derived stem cells, along with devices like Lipocube, is the way to go. This procedure represents the future of rejuvenation and plastic surgery, and it is within our reach.

The path to a younger and healthier appearance has never been so promising. By combining science, technology, and the regenerative capacity of the human body, we are entering a new era of aesthetic treatments, where the natural and the technological come together to deliver results that go beyond expectations.

