



DR MATTEO  
**VIGO**  
PLASTIC SURGERY

INNOVATIVE STEM  
CELL TREATMENTS



Stem Cell Treatment is an effective treatment for several conditions and has been successfully used to improve skin and hair conditions. I provide the following treatments:

- Anti ageing
- Scar and acne treatments
- Hair loss
- Natural body shaping

#### **WHAT ARE ADIPOSE DERIVED STEM CELLS?**

Adipose Derived Stem Cells are mesenchymal stem cells which can be found in the fat tissue; these cells represent a multipotent cellular population which can differentiate into cells of various tissues, including but not limited to bone, cartilage, heart and muscle.

Moreover, those cells can show immunomodulating properties and an elevated capacity to stimulate the formation of new blood vessels. Adipose derived stem cells are also contained in the bone marrow, in the amniotic liquid and epithelial tissue. The fat is our richest source of stem cells and it is the easiest tissue to be harvested through a normal liposuction. Adipose- derived stem cells can be used in many field in cosmetic and reconstructive surgery. They are very useful in the body shaping, helping the survival of the grafted fat, play an important role in the rejuvenation process of the skin, promote the healing of scars and the correction of it. They can be used also as a treatment for stretch marks, old scar depressions and keloids.

#### **PERSONALIZED ANTI AGING SKIN CARE**

This process allows you to create your own personal supply of collagen-producing Adipose Derived Cells to correct fine wrinkles, folds and ageing signs. It is a natural treatment that does not rely on injecting artificial components into the skin

#### **THE AGING PROCESS**

Fibroblasts are skin cells that produce collagen and elastin. Their function is essential for maintaining elasticity and firmness of your skin. As we age, our fibroblasts reduce in number and the collagen matrix that makes up most of the dermis breaks down. This creates an imbalance that causes the dermis to become less stretchable, less resilient, more lax and prone to wrinkling.

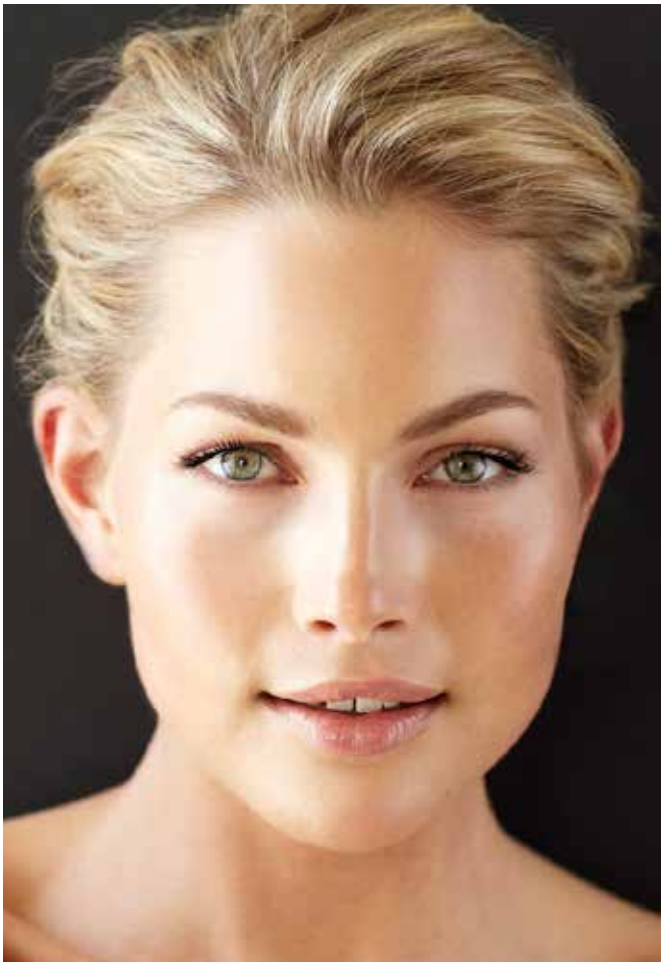
## RESULTS

The new implanted Adipose Derived Cells produce collagen and elastin and make the skin smoother and healthier. Reducing the appearance of fine lines, wrinkles and superficial imperfections as damaged skin cells are quickly outnumbered by the proliferation of healthy cells. A boost in collagen and elastin, helps to restore the skin's smoothness and elasticity.

The cells will make new collagen and they will require time to form that new matrix. The younger are the skin cells the quicker are the results; the average time from injection to when you see the changes is usually only a few months and you will see continued gradual improvements for 6 months to a year.

## CAN I STOP THE AGEING PROCESS OF MY SKIN AND PREVENT IMPERFECTIONS?

Preserve your ADCells today and put a stop to skin-ageing. Thanks to the innovative cell culture processes, you can now obtain millions of new cells from cryopreserved ADC that will be used to restore the conditions of young skin and replace aged cells





## **SCAR AND ACNE TREATMENTS**

Through the Adipose derived Stem Cells, it is now possible to reduce the deep acne scars and stretch marks: they occur when the skin is overstretched. This sudden extension causes a mark in the bottom layer of the skin that becomes noticeable. Scarring has many causes from accidents to acne, surgery, illnesses such as chicken pox, and countless other reasons. LIPOSKILL PLUS is an advanced treatment that allow the reduction of scars and stretch marks using Adipose Derived Stem Cells. In both cases, the injection of ADSC restores the physiologic condition of normal skin repairing the damages through the extracellular matrix rebuilt. In addition, the ADSC remove the fibrotic tissue that reveal the scar making it unpleasant in function and aesthetic.

## **WHAT TO EXPECT?**

The treatment helps your skin heal properly without any scarring. Gradual Decrease of wound scars. Stretch marks can be reduced to give the skin a clear and fresh appearance.

## **RESULTS**

ADSC help to rebuild new skin, allowing skin lesions to progressively fade and be replaced by fresh, smooth skin. The result is skin that looks healthy, smooth and translucent. Through the Adipose derived Stem Cells, it is now possible to reduce the deep acne scars and stretch marks: they occur when the skin is overstretched. This sudden extension causes a mark in the bottom layer of the skin that becomes noticeable. Scarring has many causes from accidents to acne, surgery, illnesses such as chicken pox, and countless other reasons. LIPOSKILL PLUS is an advanced treatment that allow the reduction of scars and stretch marks using Adipose Derived Stem Cells. In both cases, the injection of ADSC restores the physiologic condition of normal skin repairing the damages through the extracellular matrix rebuilt. In addition, the ADSC remove the fibrotic tissue that reveal the scar making it unpleasant in function and aesthetic.

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## HAIR LOSS

Alopecia Areata is an autoimmune disorder characterized by patches of non-scarring alopecia affecting scalp and body hair; it is clinically heterogeneous, and its natural history is unpredictable. There is no preventative therapy or cure at this moment. Hair transplantation - which takes plugs of natural hair from hair-rich occipital areas and transplants them to the hair-poor areas- may no longer be a viable option for treatment, as there might not be sufficient donor hair follicles (available from the scalp or other areas) that can be transplanted without causing collateral damage elsewhere. Cell therapy can restore bald scalp areas has become an emerging focus in addressing this medical condition.

Adipose derived cells (ADC) are one of the latest break-throughs in hair regeneration, since these cells and their conditioned media (ADC-CM) have been reported to promote hair growth in vitro and in some clinical reports of treatments for androgenic alopecia or female pattern hair loss (FPHL). Moreover, ADC-CM increases the proliferation of human follicle dermal papilla cells (DPC) and human epithelial keratinocytes, two cell types present in hair follicles, inducing anagen phase and stimulating hair regeneration.

## THE TREATMENT

The treatment is based on the administration of ADC-CM alone or in association to autologous, in vitro expanded ADC. ADCs are isolated starting from a fat tissue sample which can be collected during a surgical liposuction or in one outpatient session. The cells are expanded under sterile conditions and culture media is collected for future use. About two weeks after the small FAT collection about ten millions of cells are ready for an immediate treatment and the remaining cells are cryopreserved for future treatments.



## ADVANTAGES

ADC-CM contains various regenerative factors secreted by ADC that can limit hair loss by recruiting endogenous cells to hair follicles sites and triggering regeneration. Moreover, ADC-CM increases the poor engraftment of the ADC transplanted alone and the clinical outcomes in hair regeneration.

The sample can be taken using a simple micro-liposuction procedure with no need for surgery, the collection does not require dedicated equipment and/or kits, simply a standard syringe.

The possibility of freezing part of the material offers the advantage of repeating the treatment several times over the years without the need to undergo again to fat tissue collection.

## NATURAL BODY SHAPING

With this treatment you can achieve a Natural Breast and Buttocks augmentation and shaping of concave deformities without any permanent implants by a safe and quick treatment. LIPOSKILL restores volume and contours body surfaces using hundreds of millions of expanded Adipose Derived Cells which are implanted using a scaffold consisting of autologous fat taken in advance.

This treatment shows a Significant reduction of the downtime and discomfort as well as the scarring and risks involved with all surgical procedures. Furthermore, it eliminates many of the concerns patients have about surgery such as undergoing general anesthesia. Permanent implants typically involve major surgery under general anesthesia which can leave extensive scarring and is associated with other medical and surgical risks. Unlike artificial implants, Adipose Derived Cells (ADC) in a natural fat scaffold allows more flexibility to shape and contour, leading to a more natural-looking and personalized result. Many patients like the idea of using their own natural fat instead of introducing foreign materials into the body since there is a lower risk of infection or other complications.

The procedure consists of two steps: the first is harvesting the fat to extract and expand the fat cells. The second is collecting the fat to use as a scaffold that will be enriched with the expanded cells and then implanted. By a withdrawal of fat of about 50-100 ml within 10 days, approximately 300 to 600 million cells are obtained. Then, the expanded cells are combined with 100-200 ml of autologous fat and implanted to increase the volume.



# A BRIEF NOTE FROM DR. MATTEO VIGO



I decided to become a doctor at early age but I was not aware of the world of Plastic Surgery. Once I have discovered it I fell in love with the whole concept behind and how this field of Medicine can be helpful for many people.

I passionately believe that, in order to improve the physical aspect of a patient, the plastic surgeon needs to combine the principles of art and science, adopting a global approach to understanding the individual desires.

Plastic Surgery is a truly fascinating, dynamic, constantly evolving field of medicine and I believe that the role of a Cosmetic Surgeon is unique and highly privileged.

My main goal is to understand the needs of a patient and try to transform their desires into reality. The role of a plastic surgeon is not only merely surgical but also supportive in the decision process of the best treatment to help patients finding themselves and their wellbeing.

All these steps are taken into consideration once a person walks in my office and the service I am offering them is always at the top.

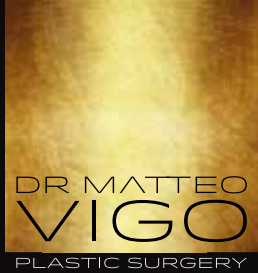
I am combining experience, quality and professionalism to evaluate each single case and offer the best solution for my patients.

**"Because you deserve the best"** is my motto and I want always to put the patient at the centre of what I am doing.

You have to feel pampered, understood, listened, loved once in my office and the feedback of this feelings from my patient is my best satisfaction.

Dr Matteo Vigo





# AESTHETIC MEDICINE DUBAI

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To book a Aesthetic Medicine consultation with  
Dr Vigo, please contact us today.

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## Locations

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Block B, Ground Floor

**HEALTHBAY POLYCLINIC**  
Al Wasl Road, Verve Villas  
Umm Al Sheif  
Dubai