

“ a new science in skin care® ”

Dermoelectroporation

Autohemotherapy

The Effectiveness of
Biological Therapy
with maximum
Comfort in total
Safety



A partnership:

&



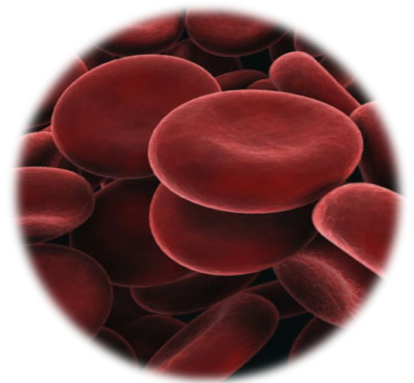
Equipment for **Medical** Line

Autohemotherapy

“Autohemotherapy can be considered an autologous connective–mesenchymal tissue transplantation with alkalizing, autoemuntorial, tissue repairing, immune–stimulating and results a successful therapy in many medicine fields”

(Bianchi, 2007).

Autohemotherapy is a **medical procedure** that involves the use of **blood derivatives** obtained by a small blood sample of the patient for the application in **regenerative and reparative purpose on the patient himself**. Blood, thanks to its composition **rich in nutrients, growth factors, chemical mediators** of natural protective and regenerative phenomena in cells and tissues, and the presence of a cellular fraction which plays **fundamental biological functions for the organism** such as tissues oxygenation (erythrocytes), inflammatory and immune response (leukocytes), hemostasis (platelets) and self–renewal (multi–potent hematopoietic stem cells) has proved to be **valuable and highly effective autologous product** in treatment of many disease both chronic and acute such as: osteoarthritis, arthritis, multiple sclerosis, hernias, eczema, hepatitis, diabetic gangrene, ulcers, planting techniques and corrective surgery ...



- Powerful
- Effective
- Natural
- Biocompatible
- Proved

AESTHETIC MEDICINE APPLICATION

In aesthetic medicine field autohemotherapy has been proved to be an effective process and free of side effects, especially in dermatology with excellent results in treatments of **skin rejuvenation, tone and texture skin increasing**, **attenuation of tissue damage due to age** (circles, dark spots), **exposure to weather and endothelial fragility** (rosacea, cuperose).



WHY TO CHOOSE AUTOHEMOTHERAPY

Thanks to its **endogenous nutrients**, growth factors and tissue–repairing mediators, blood can promote **long–term skin positive effects** such as an **enhanced production of collagen**, **endothelial cell regeneration** not obtainable by means of **synthetic drugs** or other heterologous origin stimulations. It also guarantees the **absence of any allergic reaction and rejection**. The bio–autologous therapy has the advantage of **preserving and exploiting the whole complexity of molecular mechanisms which stay behind of natural homeostatic processes** (ligand–receptor specificity, transductive cellular pathways, regulation of genes expression, intra and intercellular communication...) **guaranteeing treatments effectiveness**, **concentrating the action** in the area to be treated and **enhancing effects** in the **maximum respect of each patient biocompatibility**.

The Silfradent–Mattioli Solution

From these two companies partnership, each one a leader in its original field, there comes a revolutionary operating protocol, based on sound science and supported by products reliability and technologies of high quality, which ensures effective and safe treatments.

WHY TO USE CGF

The **CGF** (Concentrated Grow Factors) is a blood product obtained by means of the benchtop centrifuge **Silfradent MEDIFUGE** (fig. 1, 2, 4). The special centrifugation profile imposed on blood samples determines a **triphasic distribution** (fig. 3), which collects in the intermediate portion, defined CGF, a **high concentration of growth factors** (VEGF, PDGF, TGF β 1 ...), **platelets**, **fibrin matrix** and **CD34⁺ cells** (hematopoietic stem cells and precursor cells of the tissue blood) (Rodella 2010). Thanks to its particular composition dense of growth factors, the Concentrate Grow Factors showed regenerative properties and versatility of use higher than other blood products such as PRP and PRF (Sohn Et al. 2009). These characteristics make of the MEDIFUGE special centrifugation protocol the best candidate to obtain an **autologous product superior in quality and effectiveness** to be used in aesthetic medicine treatments for skin repair, regeneration and revitalization.



Fig.1



Fig.2

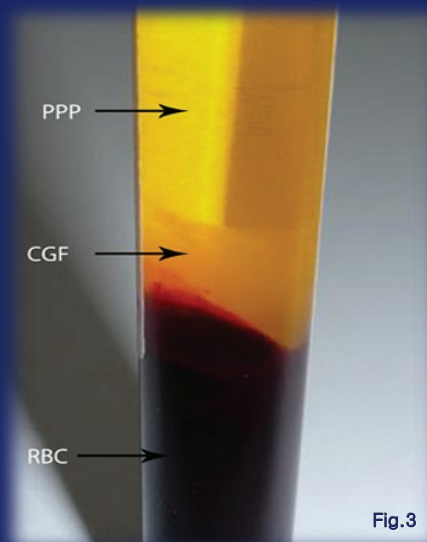


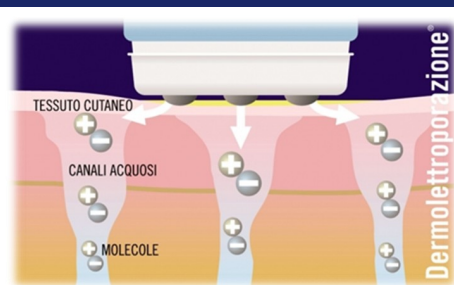
Fig.3



Fig.4

Dermoelectroporation®

Thanks to its therapeutic benefits and its extraordinary effectiveness, the system was officially approved by the Food and Drug Administration as an effective alternative to injections: "local administration of ionic drug solutions into the body for medical purposes and can be used as an alternative to injections".



WHY TO CHOOSE MATTIOLI TECHNOLOGY

Dermoelectroporation® signed Mattioli Engineering is now an established technology, supported by clinical tests and authoritative scientific studies (Pacini 2005, Cavallini 2007...), which **increases skin permeability** by promoting **temporary aqueous channels opening** tanks to intensity-controlled electrical pulses, **completely painless and safe**. Through these channels, is made possible sterile substances transdermal transport up to hypodermic and muscle membranes level. Moreover the system allows the passage through the dermal layer of **high molecular weight substances** (eg, hyaluronic acid, Pacini 2006) which could not be otherwise absorbed, nor via classical iontophoresis methods. To assist the whole process the pulses-dispenser handpiece performs a **comfortable vibrating massage** activating **local microcirculation**.

Fig.4

Fig.5

Fig.6

Fig.7

As long as autohemotherapy concerns (fig.7, 8) Mattioli transdermal devices (fig. 5) are the most appropriate method of widespread surface delivery: **effective, painless** and, above all, **safe** thanks to the handpiece **sterile disposable caps** (fig. 6) which cut down any cross contamination risk between patients. Furthermore, the **Needle Free Syringe dispenser with Super Precision Liquid Dispenser** (fig. 4 – loadable directly from centrifuge sample tube) due to its accuracy, allows to deliver even small solution quantities, adapting the treatment to any skin type absorption speed, **avoiding product dispersion in work environment and blood-operator contact**.



Fig.8

Medifuge + Transderm

Our Special Offer



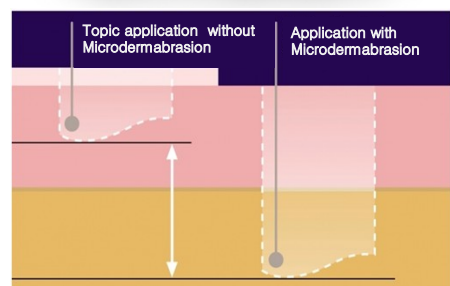
A **Transderm Digital** the electromedical device signed Mattioli Engineering that ensures an optimal transdermal delivery: safe, effective and enjoyable.

As alternative



B

Ultrapeel Transderm Digital that combines to transdermal action a preliminary treatment of dermoabrasion in order to increase the power of channeling through the skin.



CGF KIT



1

REF	PRODUCT	Quantity
1	MEDIFUGE 200	1
2	Vacuum Tubes	2x100
3	Tubes Rack	1
4	Blood needles	24
5	Swabs	25
6	Tourniquets	25
7	Patches	3x30

+

Assistance and Training Course



2



3



4



5



6



7

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Equipment for Medical Line

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Equipment for **Medical Line**



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