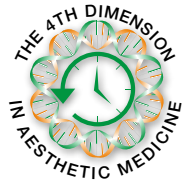




BIOREV@LUMETRY

The 4th Dimension in Aesthetic Medicine

BIO-REVOLUMETRY: INNOVATION APPLIED TO AESTHETICS



BIOREVOLUMETRY

The **BIO-REVOLUMETRY** is an innovative category of injection treatments aimed at complete rejuvenation of the face through correction of volumes and tissue re-structuring.

The search for **“NATURALNESS”** of the results and **“LOW INVASIVENESS”** has brought to the development of a new concept in Aesthetic Medicine – the Bio-Revolumetry – meant for the prevention and treatment of skin ageing.

In order to contrast facial ageing effects, poorly satisfying solutions are proposed quite often: these go from highly invasive treatments to the ones aimed at “freezing” the face and blocking the ageing process.

Through **BIO-REVOLUMETRY** it is possible to obtain:

- **BALANCE**
- **HARMONY OF THE FACE**

The Bio-revolumetry as a global approach to skin ageing

It is certainly not that single wrinkle that makes us realize, our face is ageing.

Other determining factors are:

- **BONE RE-ABSORPTION**
- **REDUCTION OF THE ADIPOSE TISSUE**

The lack of a structural support provokes a relaxation of soft tissues, which gives a globally hypo-trophic and loose appearance to the aged face. When a face gets older the constant action of muscles brings to a dislocation of the adipose layers. Some areas of the face become empty because of the ever thinner adipose layer.

On the contrary, other areas (such as jaw and the lower part of the cheeks) become more massive due to the fact that they collect the adipose layer that has moved downwards. In some cases this brings to an asymmetry of the face.

Therefore, it is not about a loss on muscular tonus but rather about an altered distribution of the tonicity.

Through **BIO-REVOLUMETRY**, it is possible to **CONTRAST THIS TRANSFORMATION** that grows as time passes by.

Rejuvenation is finally possible

The **BIO-REVOLUMETRY** opens the doors towards a different therapeutic approach to facial ageing, which does not just simply restore lost volumes but goes further, to the so-called **“FOURTH DIMENSION”**, that comprises both, **SPACE** and **TIME**.

The patient will note an immediate natural restoration of the volume and, with time, a clear improvement of the skin quality will be visible, as well. In fact the skin will appear more tonic, luminous and elastic.

Triple action of the treatment

- THE **VOLUMETRIC** ACTION IS MEANT TO PHYSIOLOGICALLY RESTORE THE VOLUMES
- THE **RE-STRUCTURING** ACTION ALLOWS FOR AN IMPROVEMENT OF THE TISSUES
- THE **MOISTURIZING** ACTION RE-INTEGRATES THE NATURAL OSMOLARITY OF TISSUES

VOLUMETRIC

+

RE-STRUCTURING

+

MOISTURIZING

Highly Pure Hyaluronic Acid

The manufacturing of Hyaluronic Acid is a complex and delicate process. The first condition to create an excellent bio-revolumetric is to implement a highly pure Hyaluronic Acid with chemical-physical properties identical to the ones of a natural physiological form. The synergy with **FIDIA FARMACEUTICI**, - world leader in the research and manufacturing of Hyaluronic Acid, - represents to us a warranty of the highest quality standard both, in terms of purity and constant physical properties of the materials.

Properties of the Hyaluronic Acid

The Hyaluronic Acid implemented is of bio-synthetic origin which guarantees for its absolute purity and safety.

The exclusive process of synthesis, purification and sterilization patented by Fidia Farmaceutici allows for a standardized manufacturing of a Hyaluronic Acid, that is identical to the natural polymer and is free of chemical modifications which can alter its biointeractivness. When injected into the intra-dermal layer it permits to re-create an ideal physiological environment by stimulating the functioning of the cells.

PROTEINS	0.0
NUCLEIC ACIDS	0.0
CHLORINE	< 0,2%
IRON	< 5 PPM
RESIDUAL SOLVENTS	< 3 PPM
BACTERIAL ENDOTOXINS	< 0,05 EU/MG
MICROBIAL LIMITS	< 1CFU/G

Bio-Re-Volumetry

“BIO” BIOCOMPATIBLE AND BIO-REABSORBABLE SUBSTANCES

“RE” REGENERATION, RE-STRUCTURING

“VOLUMETRY” FORMATION OF NEO-VOLUME

Properties of bio-revolumetric products

In Bio-revolumetry highly specific injection products are used, which have unique properties that provide for the efficiency of the treatments. The main ones are:

- **MONO-PHASE** Spreads uniformly within the tissues
- **ELASTICITY** Guarantees for a natural mobility of the implant that follow the mimic movements of the face
- **THIXOTROPY** Guarantees an easy extrusion through a needle cannula allowing for a targeted corrective action
- **TISSUE INTEGRATION** Makes the implant feel particularly natural when touched

Hypo-volumetries of the face

The degree to which the dermal structures are damaged and the consequent alteration of the interstitial fluid determine the substantial difference between the Local Hypo-volumes and hypo-volumetric de-structurings.

The face, under its morphological variations, presents peculiar characteristics linked to the distribution of volumes across various areas, which on their turn are represented by the bone and muscular structure and by the presence of compartment fat.

What compromises age-related physiognomic alterations is represented by:

- A progressive reduction of fluid in the junction and extra-cellular spaces
- A structural alteration of the dermal and epidermal configuration

When choosing a bio-revolumetric product for a patient, the **FACIAL HYPO-VOLUMES** must be taken into account.

These can be divided into:

- **LOCAL HYPO-VOLUMES**
- **HYPO-VOLUMETRIC DE-STRUCTURINGS**

Younger patients

The constitutional aspect prevails

Absent or Poor damage of the soft and bone structures



Local Hypo-volumes (LH)

The hypo-volumetric aspect prevails over de-structuring, whereby the latter is at its embryo or only a little bit advanced stage. In this case we can also note a right level of hydration and extra-cellular osmolarity and, thus, there is a friendly environment for such a product.

Less younger patients

More widespread hypo-volumes

Involvement of dermal hypodermal and bone structures



Hypo-volumetric De-structuring (HD)

The reduction of the hypodermal layer is more widespread and is related to an advanced damage of the dermal structure and to a reduced concentration of fluid inside the extra-cellular space. All this causes a visible relaxation of the skin whereby the tissues get dislocated, facial contours altered and false volumes formed.

BIOREVOLUMETRY

BIO-EXPANDER - Hypo-Volumetric de-structurings

The product indicated for Hypo-volumetric de-structurings is Regenyal Idea **BIO-EXPANDER**



Regenyal Idea BIO-EXPANDER is a medical device characterized by high DIFFUSION, MOISTURIZING, SOFTNESS AND FLEXIBILITY properties.

This product – designed specifically to be injected through micro-cannula – spreads perfectly within the tissues following the natural movements of the face.

The big water recall in the skin enables the product to immediately BIO-EXPAND, re-balancing this way the volumes of the face and maintaining them over time. In addition, the free Hyaluronic Acid contained in the product provides for receptor stimulation improving the quality of tissues.



REGENYAL
idea Bio-expander

CROSS-LINKED HA + FREE HA

IAL-SYSTEM DUO - Local Hypo-volumes

The product indicated for Local hypo-volumes is **Ial-System DUO**



IAL-SYSTEM DUO is an innovative sterile, apyrogenic, clear and transparent, highly viscous gel, which is obtained through a physic association of two gels, which are produced by cross-linking of a Hyaluronic acid of fermentative origin. Its prolonged permanence

in site of injection guarantees for a long-lasting filling effect together with a slow release of free Hyaluronic Acid, which – thanks to its natural moisturizing and stimulating properties, - improves skin turgor and elasticity.



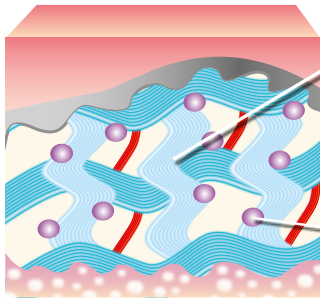
IAL-SYSTEM **DUO**
CROSS-LINKED HYALURONIC ACID + ACP^{2.5%}

CROSS-LINKED HA
+
ACP (auto cross-linked polymer)

Actions on the tissues

In bio-revolumetrics there are closely combined cross-linked and free or slow-release HA types:

- **CROSS-LINKED HA** has a structural volumizing function
- **FREE OR SLOW-RELEASE HA** optimizes the receptor stimulation



SCAFFOLD Action

Cross-linked **HA**

Biodegradable scaffold

Plays the role of a structural platform that is partially inert and more resistant thanks to its being cross-linked

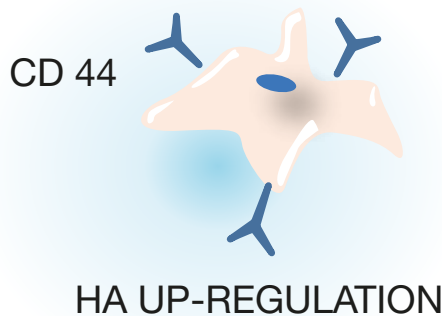
RE-STRUCTURING Action

Free or slow-release **HA**

Bio-interactive gradually released

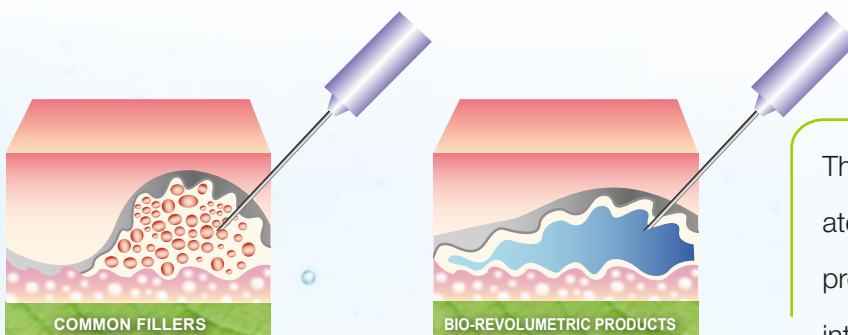
with the effect of stimulating the HYPO-DERMA Interaction on CD44 receptors of the MSC (Mesenchymal Stem Cells)

The Hyaluronic Acid



Interacts with the CD-44 RECEPTORS and favors an Up-regulation action of the receptor itself, which on its turn accelerates the cellular processes (Migration - Adhesion - Cellular Differentiation).

Spreading within the tissues



The product spreads immediately within the tissues, which provides for a better tissue integration

Bio Process

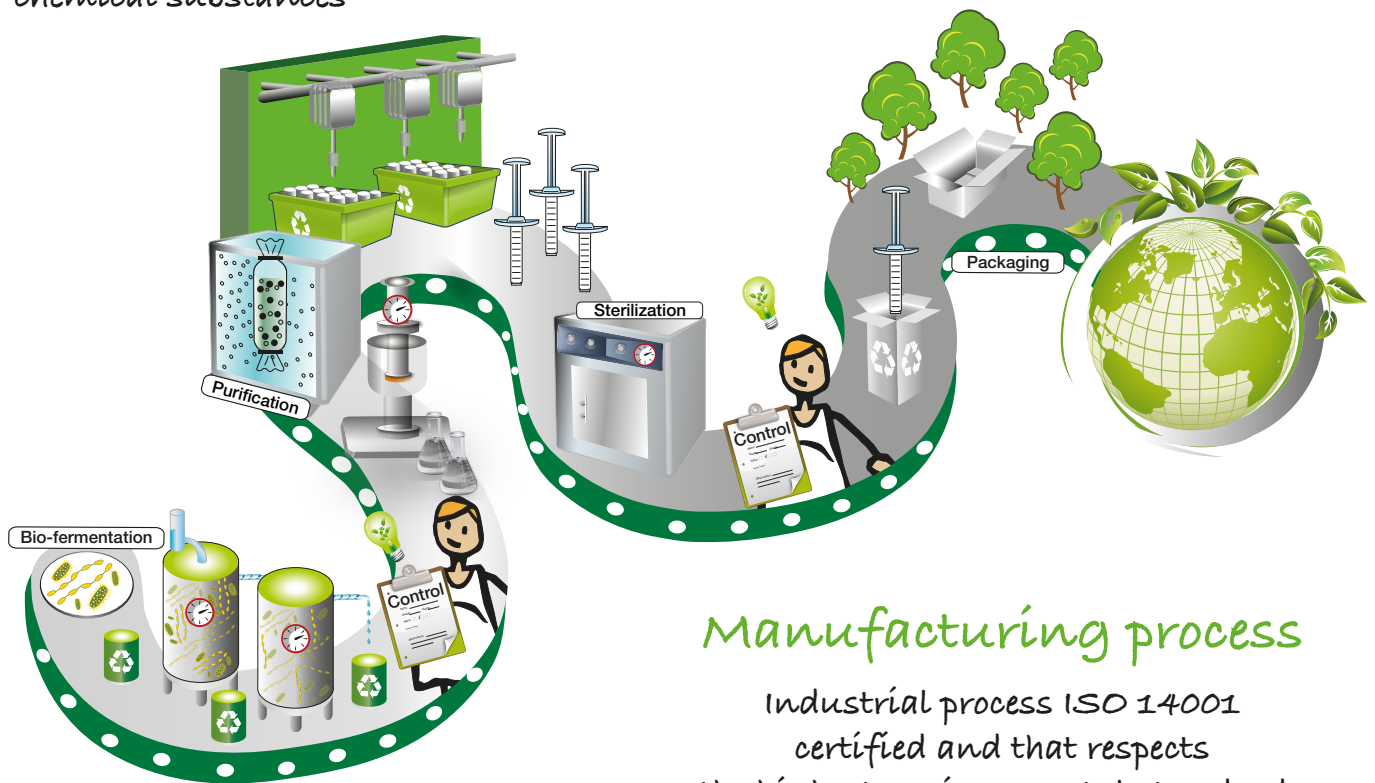
A SPECIFIC CONTROLLED AND CERTIFIED MANUFACTURING METHOD

Raw materials

Purity of the raw materials free of polluting chemical substances

Packaging

The materials used for packaging are created from materials that respect the environment in compliance with the FSC standards



Manufacturing process

Industrial process ISO 14001 certified and that respects the highest environmental standards

Patents

Developed with the aim to implement minimal amounts of external chemical substances

Properties::

PURE HYALURONIC ACID ●

OF THE HIGHEST QUALITY

PATENTED ●

MANUFACTURING PROCESS

REDUCED AMOUNTS OF ●

CROSS-LINKING AGENT (BDDE)

Green Injections

GREEN INJECTIONS is a new international safety standard applicable to injection products, which also concerns the manufacturing process that is supposed to be environment friendly and the techniques for the obtainment of natural correction results and the maintaining of natural beauty in the course of many years.

GREEN INJECTIONS are:

GREEN PRODUCTS Products of the highest quality thanks to the use of pure Hyaluronic Acid, containing minimal levels of external chemical substances.

GREEN TECHNOLOGIES New generation products created in Italy in compliance with the strictest rules aimed at protecting the environment: limited waist, energy saving, purification of the water, waist recycling, implementation of machinery with minimal energy consumption.

GREEN TECHNIQUES Injection techniques with the implementation of cannulae and needles, developed by highly qualified medical experts and that offer high level performance and safe treatments while reducing to the minimum the risk of complications in the “difficult areas”.

GREEN RESULTS Visually “ecological” corrections that guarantee completely natural results!

green
injections





Fidia Farmaceutici Spa – is a world-leader in the manufacturing of Hyaluronic Acid. Thanks to its investments in research, the Company managed to make their products international. In addition to research and development of applications on Hyaluronic Acid, the main manufacturing fields are the active principles for the manufacturing of antibiotics and antitumorals, medicines and medical devices for the treatment of pathologies of great importance from the social and economical point of view.



IAL-SYSTEM•DUO
 Manufactured by
FIDIA FARMACEUTICI Spa



Regenyal Laboratories was founded as a manufacturing site dedicated to the research, development and manufacturing of medical devices; its preeminent sector is the one that takes care of Hyaluronic Acid-based injectables: a precise choice of sector with the aim to become an international landmark in the field of Aesthetic Medicine. Controlling every phase of the production process guarantees the highest standards of quality, traceability of the product, safety for the operator and the patient.



idea Bio-expander
 Manufactured by
REGENYAL LABORATORIES Srl
www.regenyal.eu

Numero Verde
800-095850



Distributed by
PHITOGEN HOLDING Spa
www.phitogenspa.eu

Green Injections - Innovative line of eco-sustainable and natural injectables!