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OXELLE

BIOGENERATING, ANTIOXIDANT AND WHITENING SOLUTION FOR THE DERMAL MATRIX BASED ON **HYALURONIC ACID FRAGMENTS, AMINO ACIDS, VITAMIN C & GLUTATHIONE**

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Jalor, a 100% Italian company, has created a new biorevitalizing formula: **Oxelle®**. It is an injectable, sterile, pyrogen-free medical device to be used for intradermal microinjection, which degrades slowly after implantation. Oxelle® treatment has a triple effect: **revitalizing, biostimulating, antioxidant, whitening action when used on individual spots.**

Quadruple effect of Oxelle® treatment

1. REVITALIZING
2. BIOSTIMULANT
3. ANTIOXIDANT
4. WHITENING

Functions of Oxelle®

Its purpose is to optimize the physiology of the skin through a fibroblastic activation for the neoformation of matrix components.

It normalizes the colloidal layer and prevents chronoaging damage caused by oxygen free radicals.

Characteristics of Heterologous Biorevitalization with Oxelle®

- Filling and shaping solution of the dermal matrix.
- It restructures the skin and promotes cell turnover.
- It stimulates fibroblasts to produce collagen and elastin.
- It defends fibroblasts from the oxidation of free radicals.

INDICATIONS FOR THE REVITALIZATION TREATMENT OF DIFFERENT SKIN TYPES

Special features for Discolorations: it can be injected directly on the stain once a week until whitening.

Photoaging and Chronoaging: first cycle, one session every 7-10 days; second cycle, one session every 15 days. *Maintenance:* one session every 4/6 months.

The treatment will be carried out by the doctor through an injection in small doses with fully customizable protocols.

Light revitalization and brightness increase: one session every 15/20 days for 3 treatments. Maintenance: one session every 4/6 months.

Recommended areas: Face, neck, décolleté and hands.

DIFFERENTIATED PROTOCOL BASED ON THE RESULTS OBTAINED THROUGH THE EXAMINATION OF OUR PATIENT'S SKIN

- *In young patients* who do not have extreme skin damage: one session every 7 days for 4 treatments, one session every 15 days for 2 treatments and finally a maintenance session 1 time a month.
- In patients with damage from biological aging (*photoaging or chronoaging*): we maintain the same protocol and in addition we introduce a maintenance session after 15/30 days.
- In the *elderly patient* who often presents a summary of all the needs, the protocol provides for a session every 7 days for 4 treatments. Then it continues with a session every 14 days using the product introduced with small multiple injections all over the face.

5 x 5 ml vials for intradermal use

Each vial of Oxelle® contains: *Hyaluronic Acid Sodium Salt, L-Serine, L-Alanine, L-Cysteine, L-Leucine, L-Lysine Hydrochloride, L-Proline, L-Valine, Glycine, Reduced Glutathione, Sodium Ascorbyl Phosphate, Phosphate Buffer System, Water P.P.I.*

RESULTS FROM CLINICAL TRIALS

From efficacy studies carried out by various universities including the University of Rome "*La Sapienza*", the University of Campania "*Luigi Vanvitelli*", the University of Bari "*Aldo Moro*", the efficacy and safety of hyaluronic acid and supplemented with amino acids and glutathione or choline have been evaluated. All patients completed the 3 months of treatment for the prevention and reduction of wrinkles on the face, neck, décolleté and hands and had positive results. Clinically, a marked reduction in wrinkles was observed with *improvement in skin texture, radiance and firmness.*

EFFECTIVENESS

Visits and assessments were made on the first day (G1, baseline), then after 60 (D60) days of treatment, and after 90 days (D90) (period regression).
Symptoms of chrono and photoaging, skin irritations, and the degree of correction obtained for each treatment and each area were evaluated.
The three parameters have been shown to improve:

- "FINE LINES" -3.25% which indicates the general reduction of fine lines.
- "WRINKLES" -1.38% which indicates a general reduction in wrinkles.
- "PIGMENTATION" -2.9% which indicates a general improvement in pigmentation.

COMPONENTS AND PROPERTIES

Hyaluronic Acid Fragments	capable of activating the CD44 of the fibroblast
Amino acids: *Proline, Glycine, Leucine, Isoleucin, Lysine, Valine, Serine, Cysteine*	precursors of collagen, elastin and glycosaminoglycans
Antioxidants: *Vitamin C* (SAP) *Glutathione* (GSH)	able to inhibit or block the process of free radical formation
Buffer system	based on phosphates

HYALURONIC ACID IN FRAGMENTS (UP TO 38 MONOMERS)

HYALURONIC ACID binds to particular proteins, called hyaladrines, influencing their function; These are called binding proteins. Scientific studies, in vitro and in vivo, have highlighted its particular predilection for binding with the CD44 membrane protein. At the fibroblastic level, the **activation of the CD44** receptor by hyaluronic acid not only conditions its synthesis activity, enhancing it, but also increases its migratory capacity towards the compartment where its repairing action is most needed.
In particular, it increases the production of **type III collagen**, specific to young skin, thus inducing a real dermal regeneration. In this sense, it is useful to underline that other treatments based on macromolecular hyaluronic acid would stimulate other receptors, such as CD39 and CD40, which through the production of fibrotic collagen would induce the distension of the epidermis but not its regeneration. The difference between macromolecular HA and **fragmented HA** consists, therefore, in the ability of the latter to fix itself directly on the fibroblastic membrane, further multiplying the stimulation activity and therefore synthesis.

ANTIOXIDANTS

Vitamin C and **glutathione** work by inactivating oxygen free radicals, which are escaping the electron transport chain.

REDUCED GLUTATHIONE is the most important antioxidant system in our body, essential for its detoxification action against free radicals and harmful substances. Its active form, reduced glutathione, neutralizes free radicals, responsible for cell damage, transforming into the passive form, oxidized glutathione. Thanks to the enzyme glutathione reductase, it is able to regenerate itself in the reduced form and resume its activity. To ensure effective cell protection, the reduced glutathione/oxidized glutathione ratio must be maintained at 9:1; A lower ratio causes stress and cell damage.

SODIUM ASCORBYL PHOSPHATE (SAP), defined as the "perfect" form of **vitamin C**, which is released in the form of ascorbic acid, which is much more stable, bioavailable and resistant to oxidative processes. It has an **antioxidant action**: it stimulates fibroblasts, promoting the **formation of collagen** and thus counteracting skin aging. Preventing the formation of melanin, it is also used as a **lightener** for skin blemishes, evening out its complexion and enhancing its radiance.

This evolutionary formula allows us to better review the heterologous regeneration protocol.

EU MDR CERTIFIED
Medical Device Regulation

EXCLUSIVE JALOR FORMULA

AMINO ACIDS FOR REVITALIZATION

About 22% of the skin's content is made up of **protein**. With advancing age, the amount of amino acids available to fibroblasts, necessary for the formation of **collagen** and **elastin**, is drastically reduced. To restore a correct synthesis activity, the presence of **Glycine**, **Proline**, **Leucine** and **Lysine** is therefore of fundamental importance.

PROLINE is an amino acid with several beneficial properties including, in particular, the strengthening of connective tissue and the well-being of the skin.

GLYCINE performs multiple actions in our body: the most important is to restart the mitochondrial function of senescent fibroblasts, which, by producing new energy, resume the activity of protein synthesis, and therefore also of collagen, whose main component, over 30%, is also made up of glycine itself.

LEUCINE and **ISOLEUCINE**, essential amino acids, act as a stimulus in the secretion of growth hormone, promoting tissue reconstruction. They are also used in the prevention of hair loss.

LYSINE, in its hydroxylated form, thanks to the interaction of Vit. C, activates collagen formation, allowing the ECM, the extracellular matrix, to support and tone the skin; In addition, it also has a repairing function for damaged hair and, in synergy with methionine, plays an important role in the treatment of alopecia.

VALINE strengthens and regulates the functions of the skin, actively participating in the repair and healing processes.

SERINE is a powerful anti-inflammatory and detoxifier of the body. An essential component of membrane phospholipids, it promotes proper fibroblast activity by regulating DNA and RNA functionality, also boosting the immune system.

CYSTEINE is used structurally, by our body, for the formation of hair; in the form of Cystine, in fact, it constitutes the keratin of the hair. It plays a vital role in the synthesis of proteins that make up muscles, and its proper intake reduces the risk of skin damage. In combination with glycine and glutamic acid, it forms the tripeptide Glutathione.

PHOSPHATE-BASED BUFFER SYSTEM

Finally, Oxelle® is equipped with a **BUFFER SYSTEM** consisting of phosphates, capable of perfectly maintaining the sol state of the colloidal MEC solution, an essential condition for activating the mechanisms for the elimination of toxic waste from cellular metabolism.