

## **ARGIRELINE: a new active serum against eyes and mouth's wrinkles.**

### **Interview to Dr. Redaelli from the site Dottorbellezza.it (September 2004)**

It is an active substance that can help reducing the facial wrinkles. It is applied at home with the indications and the supervision of the aesthetic doctor and it promises good results. Doctor Alessio Redaelli, aesthetic doctor from Milan, explains to us.

In fact, it is a new "raw material" now buyable from pharmacists and it can be transformed, through a masterful preparation, in a truly efficient serum.

But let us call upon Doctor Alessio Redaelli, aesthetic doctor from Milan:

"All of us know that the wrinkles recognise many mechanisms of formation: among these, the one due to the muscular contraction is the most important and it is surely among the first responsible of the glabellar wrinkles – the one that form between the eyes – the forehead wrinkles, due to the frontal muscular contraction, and the "crow's feet", provoked by the contraction of the orbicular muscle of the eye.

Not only. "Also the peribuccal district – the facial zone around the mouth – doctor Redaelli continues – often recognises a mechanism of formation due to the hyperactivity of the orbicular muscle of the mouth. In this case, the use of muscular relaxants can be extremely useful: the case of the smokers is typical.

Controlled studies demonstrated that the deepness of the wrinkles due to more superficial muscles, in particular the ones of the lateral side of the eye (the so called "crow's feet") and the radial ones of the mouth, can be reduced efficiently with the use of the esapeptide, in case that the concentration does not overcome a determined threshold: at least the 10% and the vector has to be suitable.

However, the masterful preparation of the pharmacist is very important for the efficiency of the treatment.

### **THE MECHANISM OF WRINKLES' FORMATION**

The cutaneous aging and the photoaging caused by the solar rays induce a series of well known modifications of the epidermis and the sub epidermis that have as result the formation of the wrinkles. Let us see them in details.

The fundamental histological alterations are:

- 1- reduction of the concentration of hyaluronic acid with consequent loss of water in the tissues
- 2- diminution of the production of the sebum (in the woman) with the advance of the years and consequent dryness of the skin
- 3- more production of the III type collagen, anelastic and harder, to the detriment of the one of the I type or "young" that gives elasticity and plasticity to the tissues
- 4- reduction of the number of elastic fibres
- 5- flattening of the dermo epidermal junction with the diminution of its capability to resist to the mechanical stimulus
- 6- reduction of the skin's thickness

"For what concerns the peribuccal district, by the time goes by, we can notice – doctor Redaelli explains – some fundamental modifications that often bring the patient in our medical room for an aesthetic correction".

## **Here they are in details**

- 1- flattening of lips
- 2- muscular hypotonicity with consequent flattening of the labial line
- 3- reduction of the volume of the mandibular and maxillary osseous crests with a consequent exuberance of the soft tissue in connection with the osseous support

In addition to this – doctor Redaelli still explains – we have to consider some subjective factors that can accelerate the appearance of the slight blemishes in this region of the face.

- 1- smoke
- 2- solar exposure
- 3- bad dental prosthesis, orthodontic problems or edentates
- 4- excessive mimic

In the end, based on the main cause of their appearance, we classify the wrinkles in:

- 1- gravitational
- 2- dynamic
- 3- dreamy

"All the lotions and serums based on esapeptide – doctor Redaelli concludes – are advisable in case of excessive mimic for the wrinkles due to the muscular contraction".

## **HOW ARGIRELINE ACTS**

Argireline is the active ingredient of some gels found in the American business, and lately also in Europe – Alessio Redaelli clarifies – and it represents a topic alternative, represented by a solution to magnify and extend the effect of the own toxin.

In fact they are products that can be used in combination. Argireline acts reducing the release of catecholamine, chemical mediators very important in muscular contraction.

In this way the muscles effectively contract less and the wrinkles provoked by their contraction reduce visibly. Besides, the concentration of the active principle that can vary from 10 to 30% is very important. The doctor will decide the best formulation".

Doctor Redaelli concludes: "Argireline acts reducing the muscular contraction of the muscles submitted to the treatment. More the muscles are thin and superficial, more they will respond to their effect".

So, the periorbital and peribuccal (the orbicular of the eye and the mouth) muscles are the ones that will derive benefit from this treatment. But in general, all the muscles of the face derive benefit from the treatment with the serum.

Beside, we cannot forget that Argireline is prescribed rigorously by the aesthetic doctor who will add, if necessary, all the substances useful for the patient, in particular the hydrating components.

The personalization of the pharmaceuticals formulations is another very important aspect that contributes to realize safer and always more efficient products.

## **ASK THE EXPERT SOME QUESTIONS**

We asked Doctor Redaelli a series of questions to better explain to our users the functionality of the treatment with the Argireline.

### **Who performs the treatment?**

The doctor does not apply Argireline. The doctor only prescribes it! In fact it can be applied at home in comfort, always following the indications of the aesthetic doctor, though.

### **Which are the methods of applications?**

"The serum is applied twice a day. Recent studies show an improvement of the 15% after about 15 days and of the 27% after about 30 days".

### **Are there any contraindications?**

"There can be an individual hypersensitivity to the product, but is very rare"

### **Tell us something about the post – treatment: are haematomas, swellings or anything else possible?**

Absolutely not. It is only a serum that needs to be massaged. Argireline does not give consequences of any kind!

Doctor Alessio Redaelli is always available in our site for further information.