

# Hyaluron Pen

## Face Mesotherapy



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# Needle-free method of facial mesotherapy with hyaluronic acid serum



## The principle of the method:

A special device with a pressured spring inside it is used. When the spring is released, the product of hyaluronic acid is pushed out through the capsule with a micro hole. That way the product is “injected” into the skin.

This method is needle-free and painless, no numbing cream or anaesthetic is needed. Each capsule is disposable and sterile, used for one client only.

# Dermatology

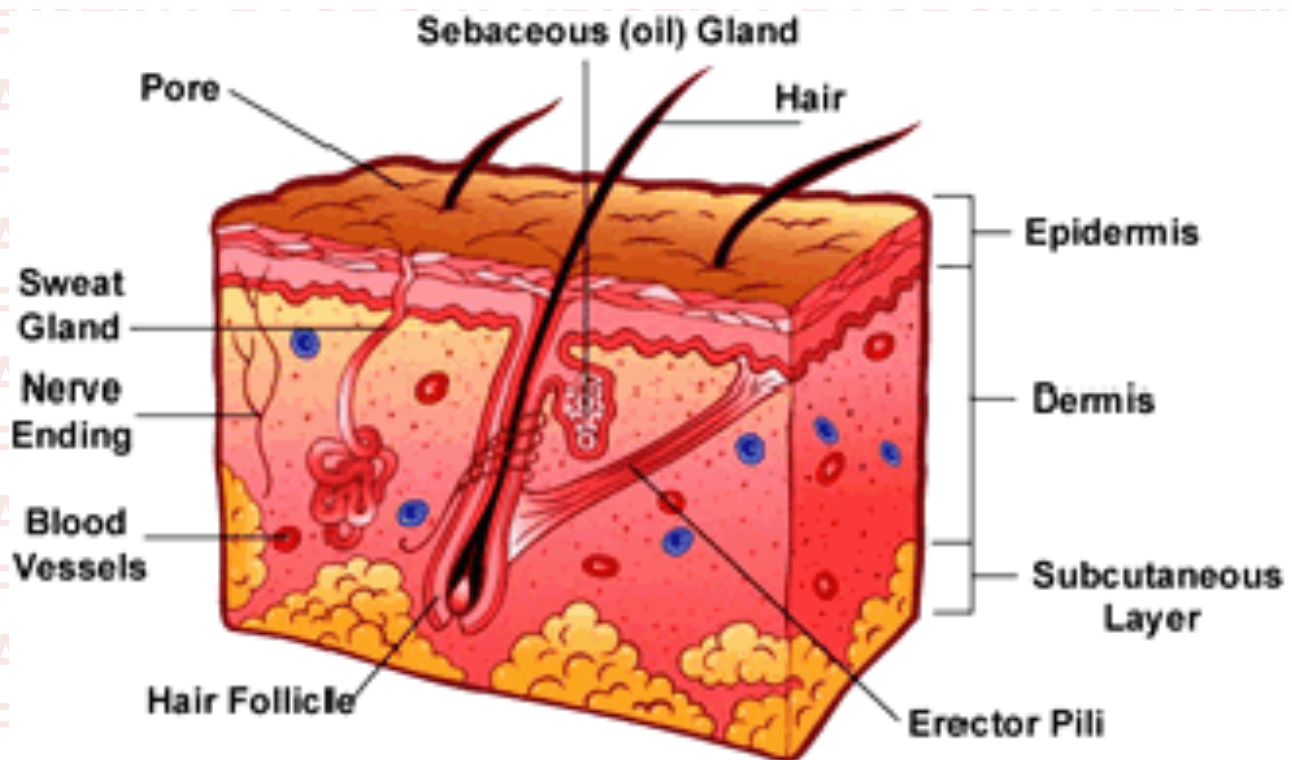
Before the treatment, it is important to understand the skin. The product is intended to be placed ideally in dermis (second layer of the skin), in this way the results will be the most long lasting, as placing it in epidermis (first layer of the skin) will be too superficial and the effect will wear off too fast. When treating face with the Hyaluron pen, after each injection a little dot of blood may appear which is normal and indicating a proper product implantation.

The skin is a surface organ (not a compact organ) that covers and protects the outside of the organism (it is an "integument"). The cutis consists of the epidermis and dermis. Its total area is around 1.5 to 2m<sup>2</sup> (adult), and it is between around 1 and 4mm of thickness (excluding the subcutis).

From outermost to innermost, the skin, also known as the cutis, consists of the following layers: Epidermis, Dermis or corium, and Subcutis or hypodermis. The skin is bounded by the general fascia, which consist of very strong fibres known as collagen fibres.

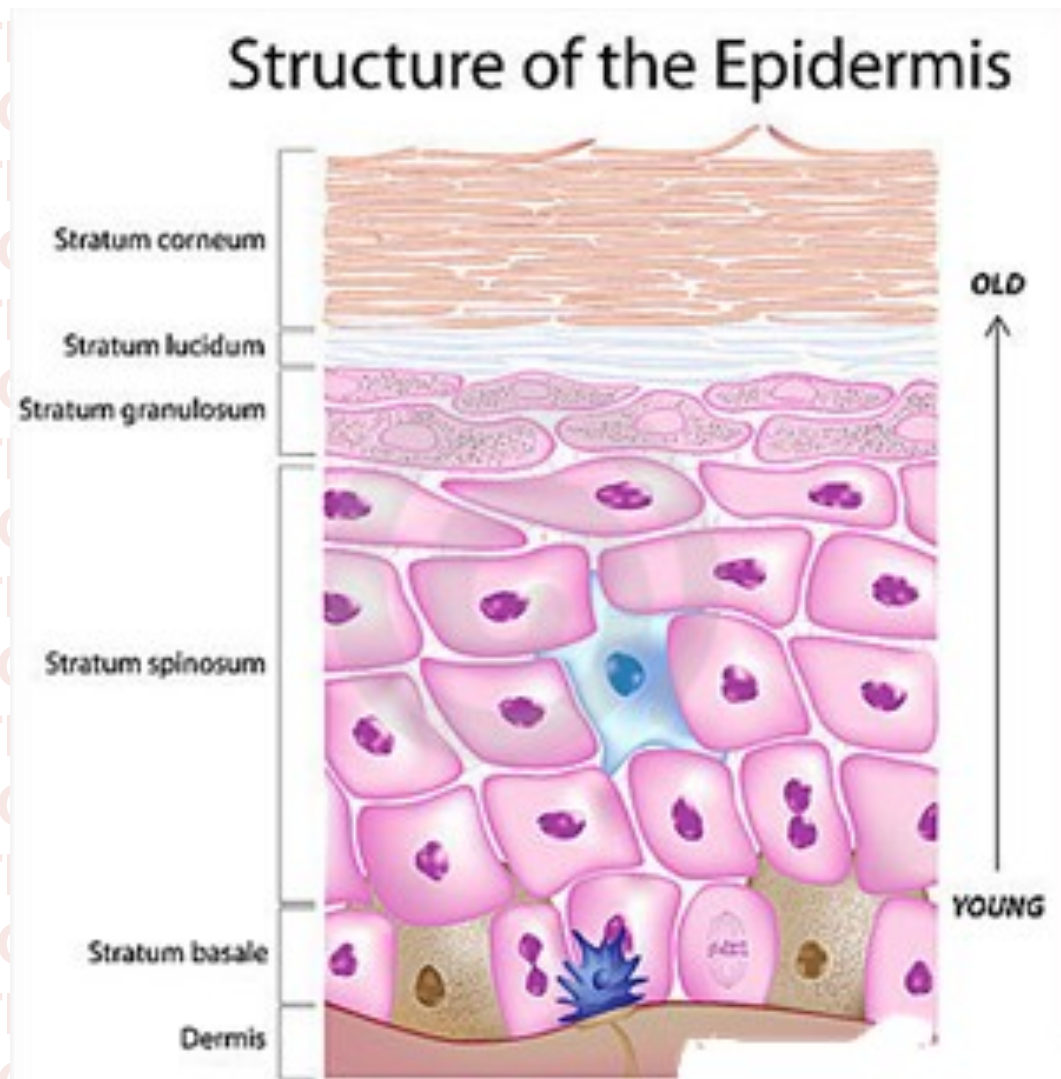


In this image the three layers of the skin with its components are illustrated:



## Epidermis

The Epidermis is the outermost layer of the skin. It in turn consists of five different layers: ×Stratum corneum or horny layer, ×Stratum lucidum or clear layer, ×Stratum granulosum or granular cell layer, ×Stratum spinosum or spinous layer, and ×Stratum basale or basal cell layer.



## Dermis

The Dermis is an elastic layer of skin that consists largely of loosely woven connective tissue. It also in turn consists of layers, namely the stratum papillare or papillary layer and stratum reticular or lattice layer.

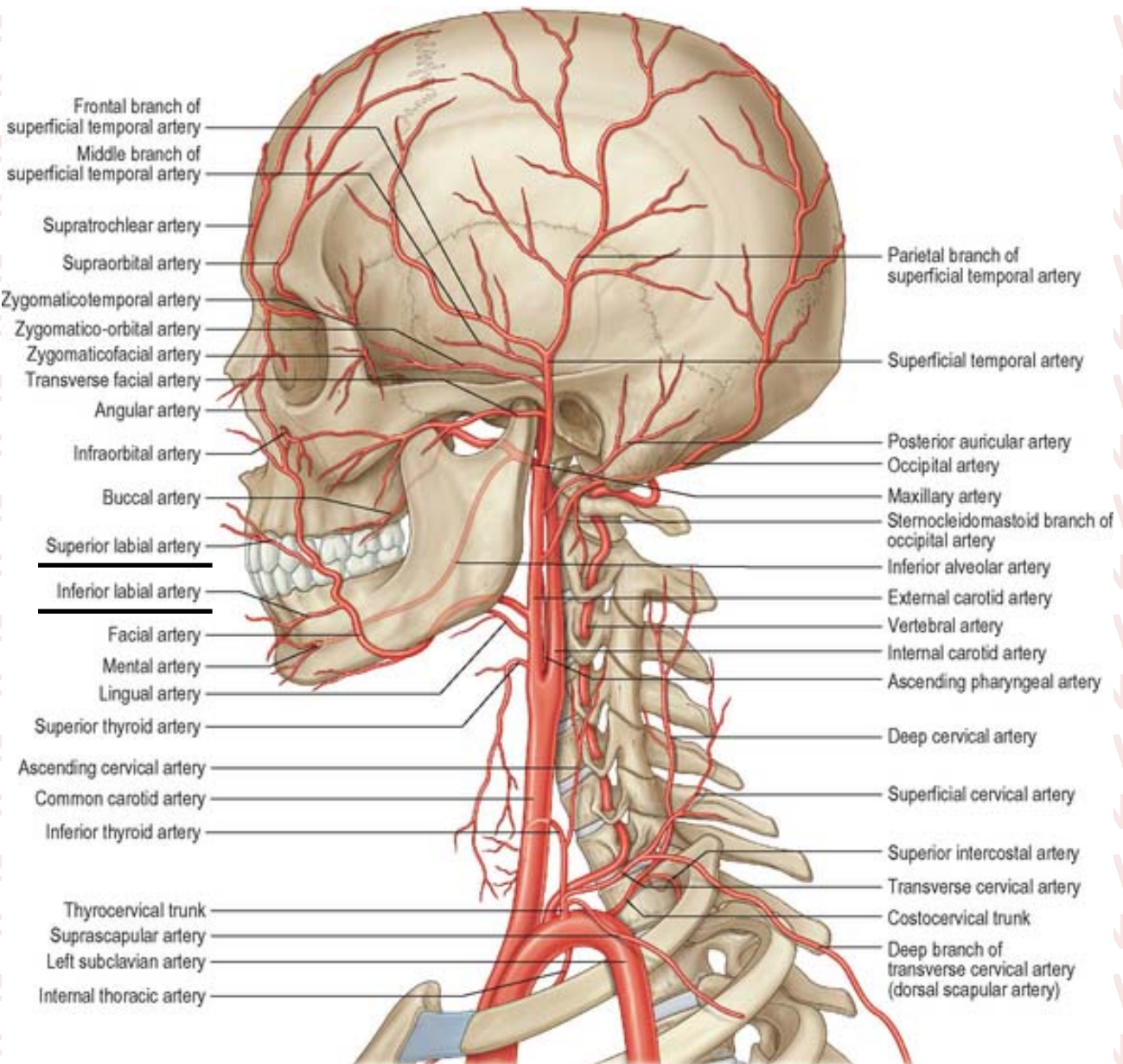
## **Hypodermis**

The Subcutis (hypodermis) consists of loose connective tissue in which fat pads are integrated like little cushions. The connective tissue is traversed by offshoots of the strong fibres of the dermis. These fibres are firmly attached to the fascia (a sheet or band of fibrous connective tissue enveloping, separating, or binding together muscles, organs, and other soft structures of the body) that lie under the subcutis. They thereby perform the function of retainer bands, binding the skin to the tissue that lies beneath it.

## **Facial arteries**

As we are not using needles in the Hyaluron pen method, the risk of occlusion or damage of arteries is near to zero, however it is important to have a general knowledge of which arteries pass in the facial area.







# Rules of asepsis

## Before the treatment:

1. Disinfect your hands
2. Put on protective gloves
3. Remove any makeup on the client's face
4. Use facial cleansing product
5. Disinfect client's skin
6. Ampoules are disposable and used only for one client
7. Treatment is not performed if any skin inflammation is present

## During and after the treatment:

1. The client shouldn't touch the treated area during and immediately after the treatment, if it's done in the first part of the day, she can wash her face in the evening with a mild cleansing product and apply night cream, if the treatment is done in the evening, no cleansing before sleep is required
2. After the treatment the used gloves are disposed of and hands are disinfected
3. It is recommended not to use makeup for at least 24 hours after the treatment

## Different types of Hyaluron pen

There can be different styles of a Hyaluron pen, however, they all work by the same principle: the spring shoots out the Hyaluron serum through the attached capsule hole.

The difference will be in the charging of the machine, some you will have to just turn or pull a handle in order to recharge and some you will have to put in a special recharging tool.

In the photos you will see different styles of Hyaluron pen:









## Usage:



**1. Take out the instrument and put it on the table.**



**2. Put the injection pen in the pressurizer.**



**3. Press the push rod down to the end and pressurized finish.**



**4. Remove the switch head and syringe from the sterile bag.**



**5. Connect the switch head to the syringe and tighten the reinforcement to the right.**



**6. Put the switch head into the bottle and use the piston to pull out of the required dosage.**



**7. Adjust the corresponding gauge line with the injection pen.**



**8. Tighten the syringe clockwise in the injection pen.**



**9. If there is a bubble in the syringe, gently tap it with your finger to make the bubble rise to the top.**



**10. Take the instrument vertically, rotate the bottom of the instrument to the right, shoot the gap and the air until the water drops on the syringe.**



**11. The instrument is aimed at the fixed point and the corresponding force, the injection is done by the injection key, use the medical cotton swab to press the needle eye for a minute, do not rub.**

## The before the treatment advice

- **Menstruation.** During the menstruation the client should be informed that she might be more sensitive to the pain during the treatment.
- **Medication.** In case of usage of certain medication or especially blood thinners and pain killers, more bleeding might be expected which is normal.
- **Allergies.** The allergies are extremely rare as hyaluronic acid is naturally found in the body. However, some serums might contain lidocaine or other additives which some clients may be allergic to, otherwise, if the treatment is done properly and in required sanitary conditions, no allergies or inflammations should occur.
- **Skin problems.** If there are any skin lesions or inflammation on the area to be treated, the treatment shouldn't be performed. In case where your client knows she is prone to certain skin conditions, you can advice to consult a dermatologist prior to the treatment.
- **Alcohol.** Large amounts of alcohol prior to the treatment might provoke bigger swelling, bruising and longer recovery.



## The after the treatment advice

- **Makeup.** No makeup for at least 24 hours to avoid any irritations.
- **Extreme weather conditions.** Extreme heat or cold might affect the sensitivity of the skin, sauna, solarium or pool included.
- **Other facial treatments.** Treatments such as permanent makeup, facial treatments or lasers in the face area should be done at least two weeks before or after the Hyaluron pen treatment.
- **Lifestyle.** Lack of sleep, vitamins, high stress levels and pollution will shorten the result retention.
- **Sports.** Avoid intensive sports for 1-2 days after the treatment as it might provoke greater irritation because of the bacteria in the sweat.
- **Swelling and redness.** Swelling, bruising, tenderness and redness after the treatment is a normal occurrence which should gradually diminish in the next 2-3 days, however the bruising might last longer (1-2 weeks)
- **Aftercare.** Do not touch the treated area immediately after the treatment, no masks or acids should be applied for at least a week, it is allowed to wash face in the evening if the treatment was done in the first part of the day, otherwise the next day morning is fine, no makeup for at least 24 hours.

# Fillers

Hyaluronic acid is a sugar molecule. It is naturally occurring substance in our body. HA (Hyaluronic acid) fillers are of the same substance only that the molecules were artificially created in the laboratory or extracted from animals.

Hyaluronic Acid fillers can be cross-linked and non-cross linked. The more the filler is cross linked, the longer it stays in the skin and attracts water molecules to it providing volume and moisturising to the skin.

For the Hyaluron pen for face treatment we use non cross-linked (normally it is written on the filler package) serums. It is better to use those serums which are more liquid rather than thick, so that it is easier to inject them through the tiny ampoule hole. The name of such filler will usually contain words like “mesotherapy”, “injectable”, “non cross-linked”, “HA”.

# An example of client agreement contract

This is an example of a client-service provider agreement which can also be modified.

## Hyaluron pen treatment agreement

The treated area.....  
The price.....  
The service provider.....  
The client.....

By signing this agreement both parties (the service provider and the client) agree to the following conditions and understand the particularities of the treatment:

- Client understands the stages of the treatment and that no needles are used
- Client is aware of possible bruising, swelling, redness, tenderness of the skin
- Service provider informed the client about the aftercare (no makeup for at least 24 hours after the treatment, mild cosmetic products for a week)
- Service provider assures the client that only sterile and disposable products were used and that it is in service provider's best interest to perform the treatment applying the best skills and knowledge
- Client understands that in order to maintain results, regular visits are necessary (every 1 to 6 months, depends on each client individually after the assessment)
- Client understands that in rare circumstances some complications might occur such as allergy, skin irritation, pain during the treatment, as the service provider cannot control the client's sensitivity or immune system

|  
Date.....Signature.....Signature.....



## Where to get the products?

It is often difficult to find the exact products needed for this treatment and a website which is reputable. The easiest way to order the products is on [www.hyaluron.company.site](http://www.hyaluron.company.site) website.

The one time investment is the hyaluron pen. You will need to reorder the capsules and the filler. Other disposable materials you will easily find in a local store or pharmacy.

## Sunscreen

After the treatment you can apply a facial serum, cream and sunscreen, if the treatment is performed in the first part of the day or it will be sunny outside and the client will go out. In case the treatment is performed late and it's dark, you can skip the sunscreen, like this the client can go to sleep directly without having to wash off the sunscreen and additionally irritating her facial skin. You can add such a recommendation in the client agreement. Otherwise, direct sun rays should be avoided for at least a week after the treatment.

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