

# Hyaluron Pen

## Techniques for fuller lips



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# Needle-free method of lip augmentation with hyaluronic acid



## 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

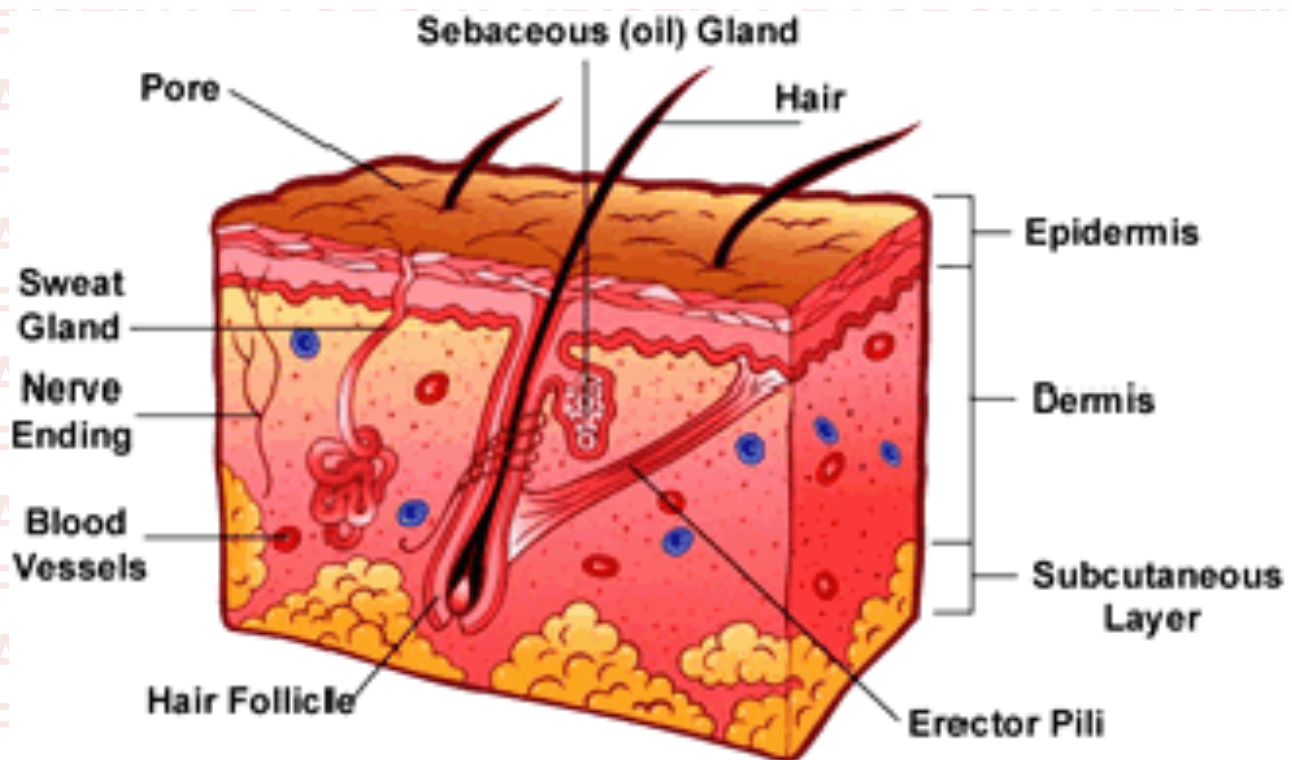
Before the treatment, it is important to understand the skin. The product is intended to be placed ideally in dermis (second layer of the skin), in this way the results will be the most long lasting, as placing it in epidermis (first layer of the skin) will be too superficial and the effect will wear off too fast. When treating lips 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.

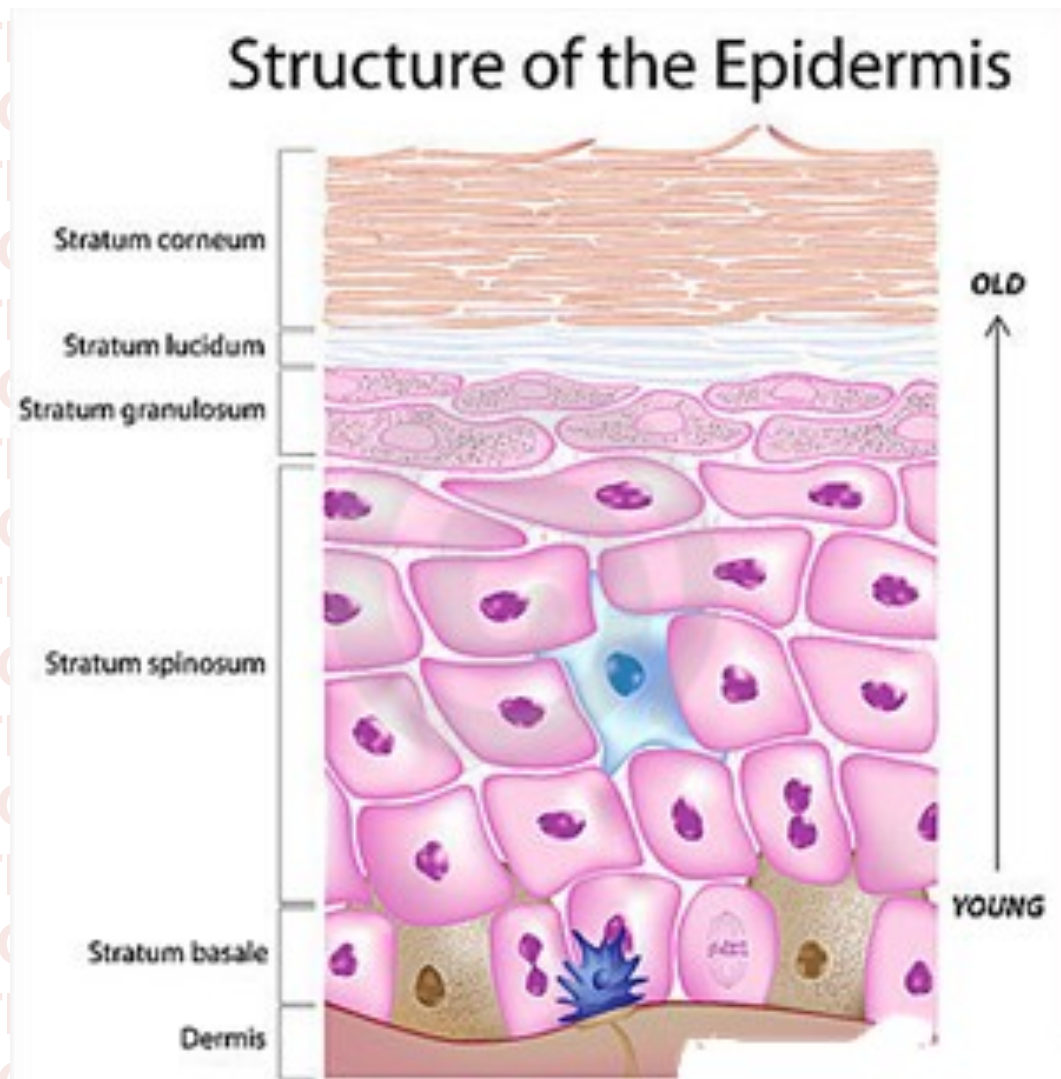


In this image the three layers of the skin with its components are illustrated:



## 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 zone of the mouth, which is where we will be injecting the Hyaluron acid serum.



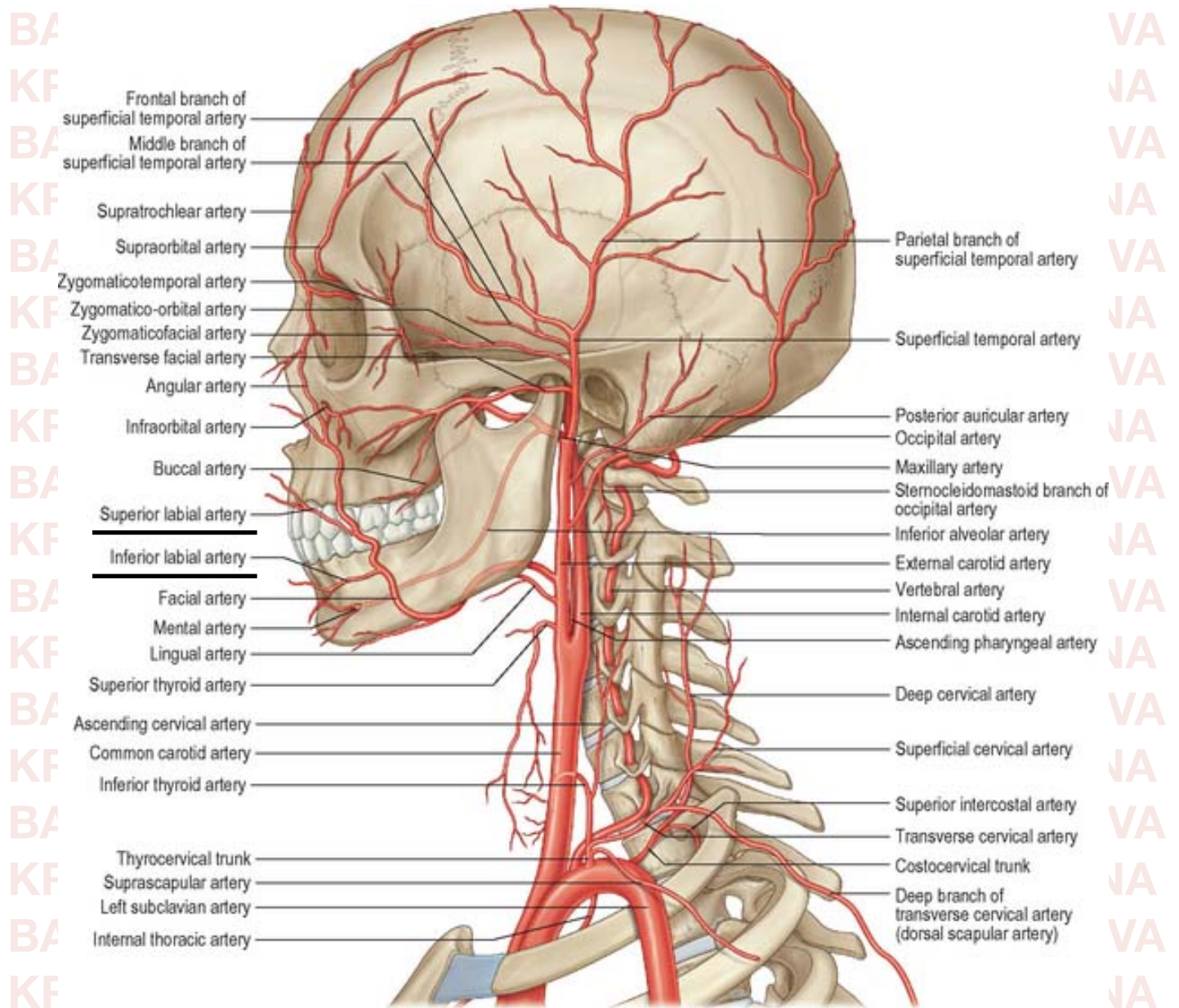


Image source: <https://basicmedicalkey.com/head-and-neck-overview-and-surface-anatomy/>

**Dangerous zones in the mouth area (perioral zone) are considered to be: upper and lower lip arteries.**



# Rules of asepsis

## **Before the treatment:**

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

## **During and after the treatment:**

1. The client shouldn't touch the treated area
2. After the treatment the used gloves are disposed of and hands are disinfected
3. It is recommended not to use lip 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:



## Lip proportions

When performing lip augmentation, the classic measurements of lip proportions are as follows:

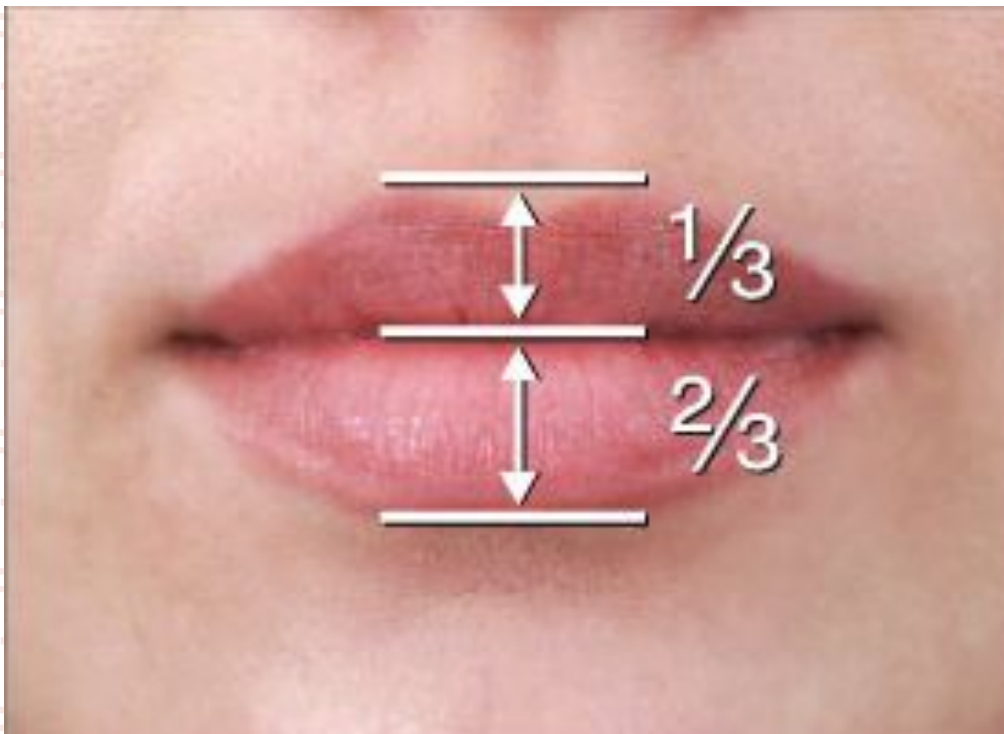


Image source: <https://www.pinterest.com/pin/436778863855516015/>







## 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.**

## Parts of the lips

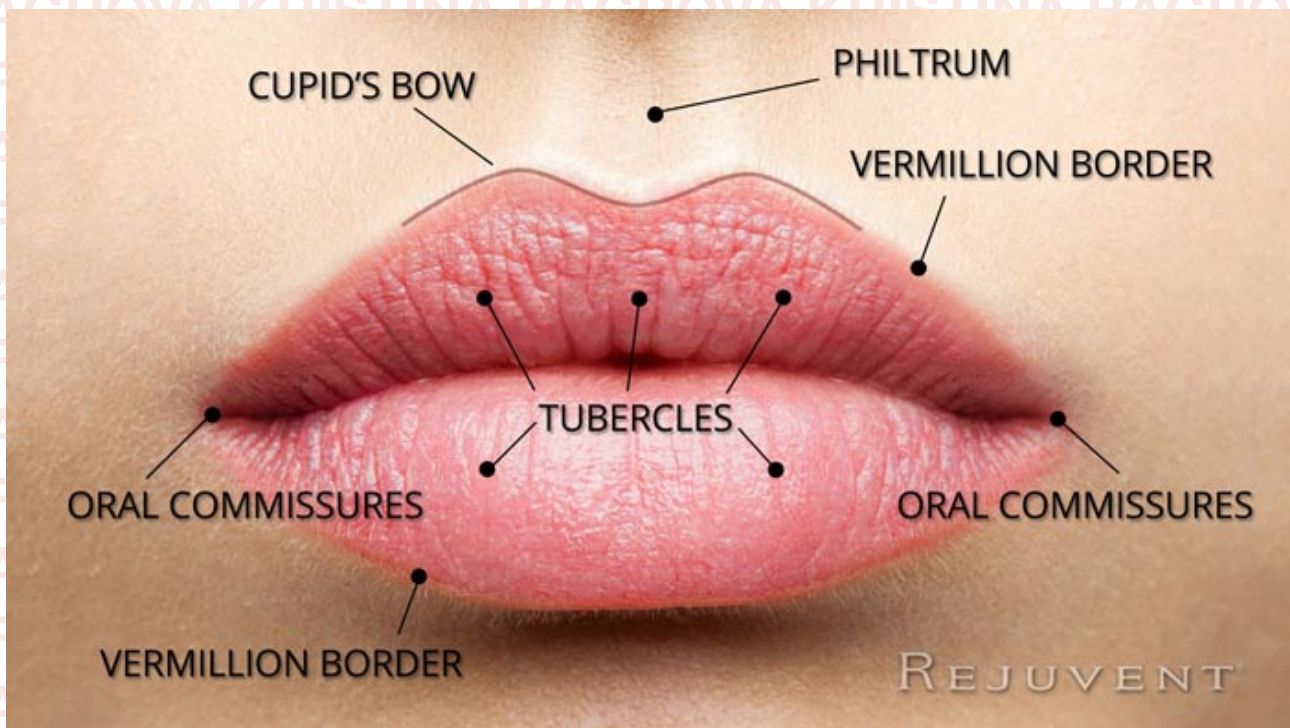


Image source: <https://www.rejuvent.com/patient-resources/videos-by-rejuvent/secret-natural-beautiful-lips-video/>

- **Philtrum:** a narrow groove between the nose and the lips
- **Cupid's bow:** the curve of the center of the upper lip
- **Oral commissures:** corners of the lips
- **Tubercles:** otherwise called vermillion bodies, are the bumps of the lips; two on the lower and three on the upper lip.



- **Vermilion border:** the lips themselves (the red part of the lips) are actually called the vermilion. Therefore, the vermilion border is lips border. You can spot it as a whiter line between the actual lips and the surrounding skin.

## The before the treatment advice

- **Herpes virus.** If the client has herpes virus, it is suggested to treat it prophylactically with pills a couple days before and after the treatment, as the skin is micro-injured during the treatment what can provoke the outburst of cold sores.
- **Menstruation.** During the menstruation the client should be informed that she might be more sensitive to the pain during the treatment.
- **Previous lip fillers.** There is no problem to use Hyaluron pen if lip injections were done previously however it is important that the client understands the limitations of Hyaluron pen in contrast to needle injections: Hyaluron pen method will provide shorter lasting results and will have a lower ability to drastically alter the shape of the lips therefore no enormous changes should be expected. Not more than 1ml of filler should be used during one treatment but also do not expect



ideally symmetrical results immediately after the treatment because of the swelling. Redness and swelling is normal for the same day after the treatment (different types of skin react differently). The treatment can be repeated after at least two weeks.

- **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 fillers contain lidocaine which some clients may be allergic to, otherwise, if the treatment is done properly, with verified fillers 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 and longer recovery.

## The after the treatment advice

- **Makeup.** No makeup for at least 48 hours on the lips to avoid any irritations or further swelling.
- **Extreme weather conditions.** Extreme heat or cold might affect the durability of the product in the skin, sauna, solarium or pool included.
- **Other lip treatments.** Treatments such as permanent makeup, other lip injections or lasers in the mouth area should be done at least two weeks before or after the Hyaluron pen.
- **Lifestyle.** Lack of sleep, vitamins, high stress levels and pollution will shorten the result retention.
- **Sports.** Avoid intensive sports for 2-3 days after the treatment as it might provoke greater swelling or 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.
- **Aftercare.** Do not touch the treated area immediately after the treatment, it is allowed to apply some vaseline, natural oil or colourless lip balm to hydrate the lips, judge the results only after around 2 weeks, that's when everything will be healed and calmed down.

## 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 we use cross-linked (normally it is written on the filler package) fillers. It is better to use those fillers 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 “fine” or for fine wrinkles rather than “volume”, “deep” or “sculpt”.

The two main defining properties of a filler is viscosity and elasticity (or G prime).

Viscosity: the filler either stays in the injection point or spreads into the tissues.

Cohesiveness: high cohesiveness means that the HA serum has a higher moulding capacity just after the injection but a less cohesive gel, on the other hand, will be more flexible.

Elasticity (G prime). Lower elasticity or lower G prime: softer fillers which have lower ability to resist deformation. Higher G prime: firmer filler, more suitable for face contouring as it holds its shape in one place rather than spreading when some pressure is applied, or in other words, when the pressure is applied, it restores its primary shape easily.

Speaking of precise brands, there are many brands of HA fillers which you can buy online without prescription, however you will have to do your own research because it will depend on your country which fillers are available for you. Otherwise, if you are a medical practitioner, often you will be able to order them from your local private pharmacies without any prescription.

Be very careful of non-verified fillers as this could cause serious consequences for your reputation and client's wellbeing in their life. Not pure fillers or fillers of unknown origins and properties can cause inflammation, infection, skin deformation where surgery might be needed, skin necrosis and atrophy, the list is non-exhaustive.



# 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 lips
- Service provider informed the client about the aftercare (48hours after the treatment not to use lip makeup, not to touch the lips while they are still tender, not to perform vigorous sports or use sauna or pool, apply some aftercare products to moisturise the lips and promote faster healing)
- Client understands that the results might be not symmetrical and a correction might be needed in around 2 weeks. Sometimes more than one correction is needed
- Service provider assures the client that only sterile and disposable products were used and that it is in service provider's best interests to perform the treatment applying the best skills and knowledge
- Client understands that in order to maintain the results, regular visits are needed every 3-6 months
- Client understands that in rare circumstances some complications such as allergy, skin irritation, cold sores, pain during the treatment or some unevenness might occur, which have to be additionally treated on the client's expense, 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.