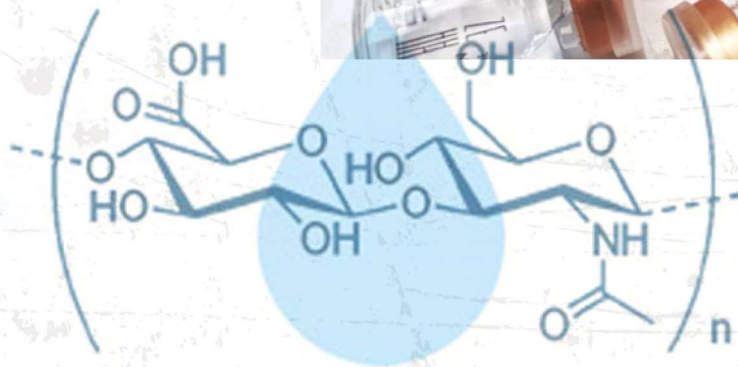


MICRONEEDLING HYALNANO FILLING COURS



What is microneedling?

The Hyalnano Filling rejuvenation treatment is performed by a professional cosmetologist using microneedling.

Let's first understand **what microneedling is?**

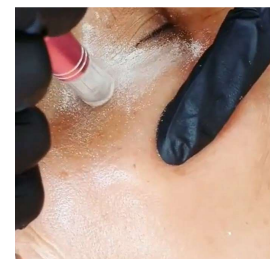
Microneedling or fractional mesotherapy is a hardware technique in which a drug (in particular, mesotherapy or serum) is not injected with a single but several needles combined into fractions (small bunches) which provide multiple microimpact. The area of this effect does not exceed 20% of the entire surface of the treated area.



The procedure is performed with a special machine dermapen, on which is installed disposable sterile cartridges are installed. On each of these cartridges is placed "bundle" of needles (usually from 12 to 36). When the machine is turned on, the mechanism begins to make a translational and reciprocal motion and actuates the needles. An important difference from classical Mesotherapy is that the length of the needles adjustable and chosen individually depending on the treatment area. It can range from 0.25 mm (when we perform any facial manipulations, for example a BB Glow treatment) to 3mm. (when we are treating other areas of the body, such as the abdomen or thighs)

The speed of exposure (micro-penetrations) we can also adjust the speed depending on the type of treatment, the area to be treated, and the thickness of the skin. It can vary (depending on the functionality of the "Dermapen") from 2,500 to 12,000 micro punctures per minute. On average, the procedure takes from 15 to 45 minutes.

To achieve the most durable the recommended course of 4 to 10 procedures at intervals of 7-18 days.



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Microneedling effects:

FIRST

With such multiple microeffects "Bundle of needles" on the skin occurs **destruction of old tissue**. For her recovery, the body actively includes in stem cells work from areas around puncture sites. Such areas are called **"Zones of mobilization"**.

In addition to stem cells begin migrate **fibroblasts** that recreate connective tissue with new young cells. Amplification occurs microcirculation processes, as well as active production of **new collagen and elastin**.

Outwardly, this is manifested by fit and restored elasticity of the skin.

SECOND

By micro-injection into the skin drugs are delivered that are depending on their composition, they have:

- anti-aging effect,
- reduce the volume of subcutaneous fat fiber,
- stimulate **cellular metabolism**,
- improve local blood circulation,
- create a stock of microelements, biologically active substances that **nourish tissue cells**.

These active substances are consumed in the skin gradually and slowly enough, thanks to why the effect of the procedure remains on long time.



CONTRAINDICATIONS

Despite the relative comfort and safety, like any hardware technology there are a number of contraindications.

TO RELATIVE CONTRAINDICATIONS BELONG:

- high blood pressure (if the client suffers from hypertension - recommended measure blood pressure before procedure)
- period of menstruation (during this period bleeding increases significantly and soreness)
- alcoholic or drug intoxication

THE MAIN CONTRAINDICATIONS:

- infectious diseases;
- viral and fungal skin diseases;
- inflammatory process in the affected area;
- cardiovascular diseases;
- violation of blood clotting;
- diabetes;
- hepatic, renal failure;
- stones in the gallbladder;
- oncological diseases;
- burns, open wounds;
- formation of keloid scars
- chemical peeling or botox injections, held less than two weeks ago;
- epileptic seizures;
- pacemaker, Holter monitor blood pressure and other implanted electrical devices;
- allergy to the active ingredients of the drug;
- pregnancy and lactation.

Main advantages "Fractional mesotherapy" compared with classic.

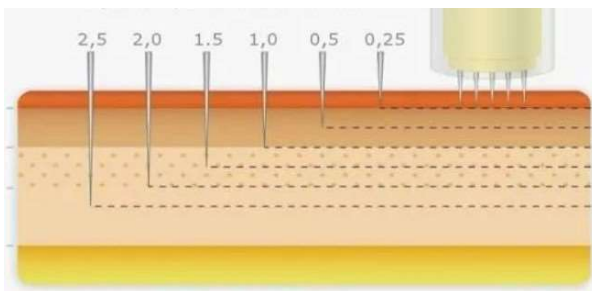
FIRSTLY, it is a small soreness.

procedure, which is achieved through

1) The use of "dermapen". It allows avoid the most painful puncture stage - tightening the skin before the needle penetrates. For this, the device uses needles, so called, "stiletto" form with a special sharpening angle.

2) Also, small pain is achieved in due to minimal tissue damage.

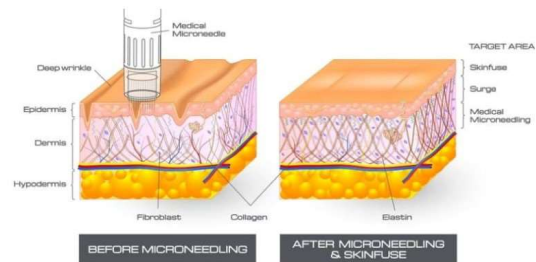
The puncture width does not exceed 300 microns. The depth of punctures is selected individually depending on the thickness of the skin on the processed area and does not exceed 3 mm.



SECOND, it's short

rehabilitation period, which may lasts 1 to 3 days. Immediately after the procedure the skin turns red, but after a day it comes to the norm.

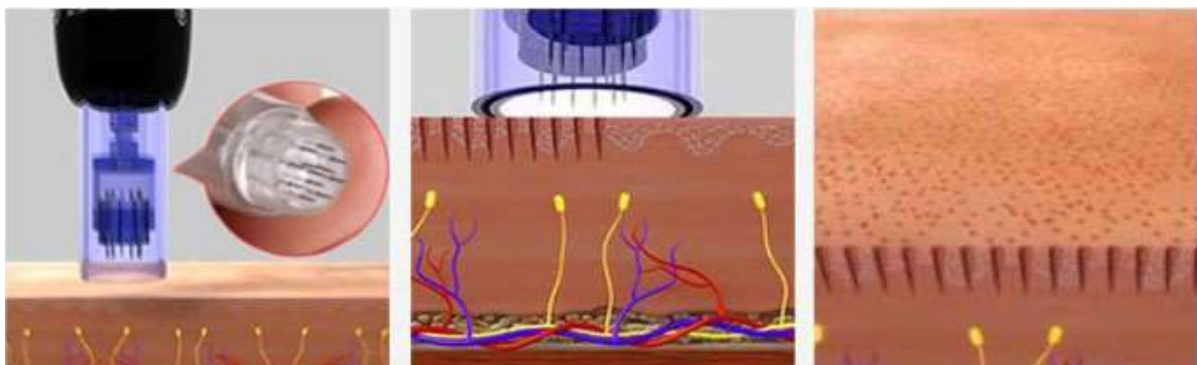
THIRDLY, it is the possibility of flexible selection of both the intensity of the impact and the length and number of needles in the cartridge, in depending on the surface and type of procedure.



FOURTH, this is a long-term result, good portability and ability combinations with other cosmetic procedures.

FIFTHLY, if during the usual mesotherapy specialist injects the whole problem zone, then during the fractional we work with the cosmetic defects located at some distance from each other (post-acne, pigmented spots, wrinkles). In this case, micro-punctures occupy less than 20% of the area processed area.

Also an automated process minimizes impact human factor. And even a specialist with little experience can carry out the procedure correctly



What is needed for a dermapen rejuvenation procedure?

The arsenal of a cosmetologist working with dermapen should have the following materials and tools:

1. Disposable gloves for the beautician;
2. Disposable dressings and capes for the client;
3. Consumables: dry and wet wipes; cotton pads, sponges;
4. Cosmetics for preliminary cleaning of the skin (Zena Cleansing Gel, Zena Light Peeling Foam);
5. Special serum or meso-cocktail Zena with active substances of different directions (depending on the purpose of the procedure);
6. Dermapen machine and disposable cartridges with different types of needles;
7. Special Post Treatment Sterile Gel Zena for application at the end of the procedure.



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DERMAPEN REJUVENATION PROCEDURE PROTOCOL:

1. a cosmetologist cleaning the client's skin from make-up and impurities using ZENA Cleansing gel;
2. applying a special anesthetic cream to the skin for 20-25 minutes (in case of client's skin sensitivity);
3. removal of the remains of the anesthetic cream after the time required for the manifestation of the action of the agent;
4. antiseptic treatment of the skin;
5. applying the ZENA meso cocktail to the skin, in accordance with the purpose of the procedure;
6. dermapen procedure;
7. application of ZENA meso cocktail to treated skin to consolidate the effect;
8. application of the soothing ZENA Post Treatment Sterile Gel, which relieves redness and irritation of the skin after the procedure.



Hyalnano Filling

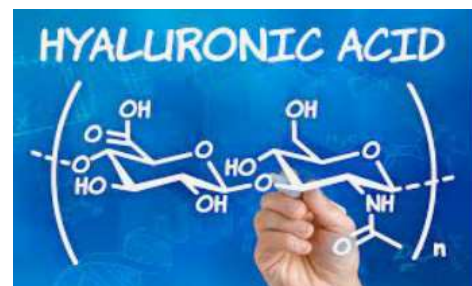
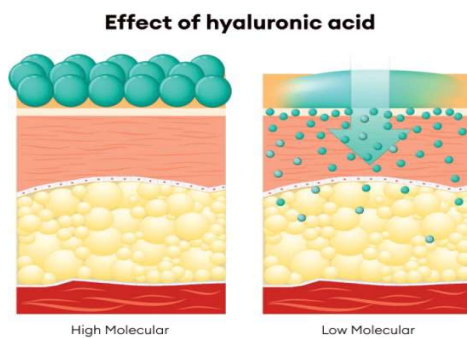
Non-injection hyaluronic acid filler for wrinkles.

It is an alternative to anti-wrinkle fillers. It contains **100-% hyaluronic acid**. The product consists of hyaluronic acid powder and serum. Due to the small size of nanoparticles (**from 2 to 4 kDa**), hyaluronic acid penetrates deeply into the dermis and removes wrinkles. The same result as when using needle injections. No pain, no side effect, not injection treatment — great result.

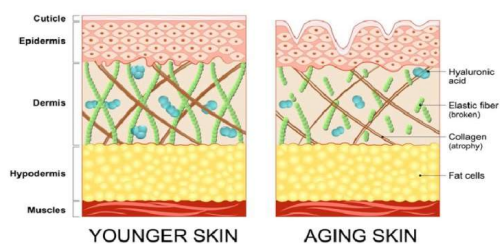


WHAT IS HYALURONIC ACID?

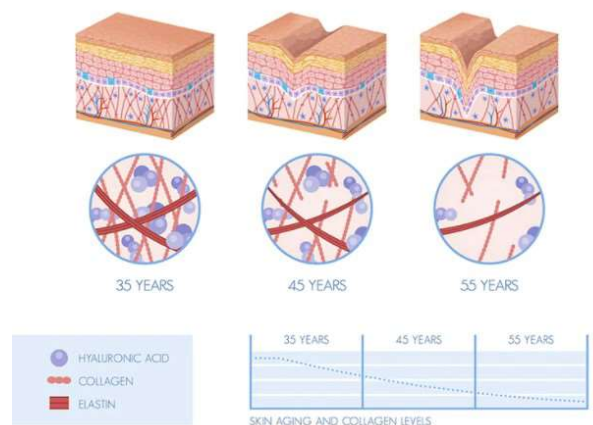
Let's see what is hyaluronic acid and what is its effect on the skin?



Hyaluronic acid (HA) plays a vital role in the synthesis of extracellular matrix molecules and epidermal cell interaction with the surrounding environment. It **modulates cellular immunity** by preventing infections and impeding allergic phenomena. One of its most important properties is that **it can attach and hold large amounts of moisture**; approximately 6L of water in just 1g. Hyaluronic acid is said to be an **ultimate solution for moisture retention of the skin**. Youthful skin is hydrated because it contains large amounts of HA in the dermis. However, as we age, the amount of HA in the skin decreases and by the time we become adults, this amount decreases to **five percent** of baseline.



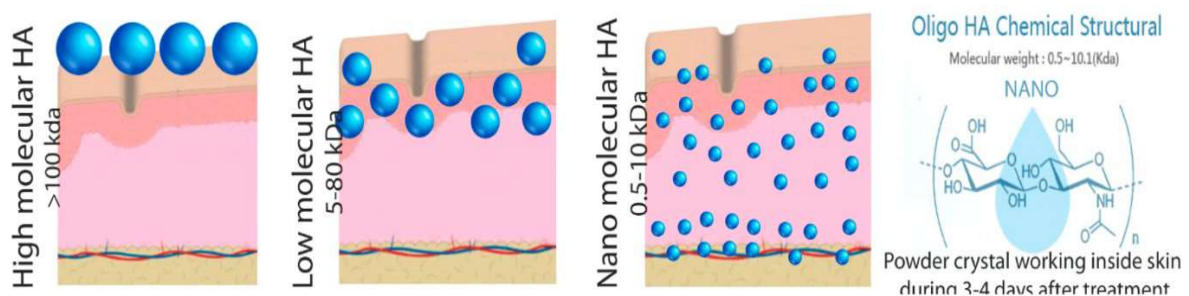
The challenging characteristic of conventional HAs in the use of topically applied anti-aging preparations has been that its molecules are 3,000nm in diameter, whereas the intercellular space is only 15 to 50nm and just 6 to 10nm at the hyaline membrane. This makes it impossible for conventionally produced HA to penetrate into deep layers of the dermis.



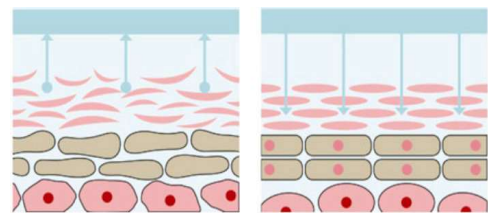
WHAT IS A NANO MOLECULE?

Until recently, invasive methods, such as biorevitalization and mesotherapy, were considered to be the only way to deliver HA across the skin barrier. Scientists at Forlle'd Laboratories in Japan managed **to reduce the size of HA molecules** without disturbing their constituent subunit structure **to a nano size (5nm)**, enabling the HA to cross the skin barrier deep into the dermal level.

This was measured and verified by applying mass spectrometry analysis, a method **developed by DR. KOICHI TANAKA**, the scientist from Shimadzu (Japan) **WHO WON THE NOBEL PRIZE FOR HIS DISCOVERY IN 2002**. Now that the particle size is confirmed to be nano, scientists decided to conduct a clinical study to verify the efficacy of the product in humans.

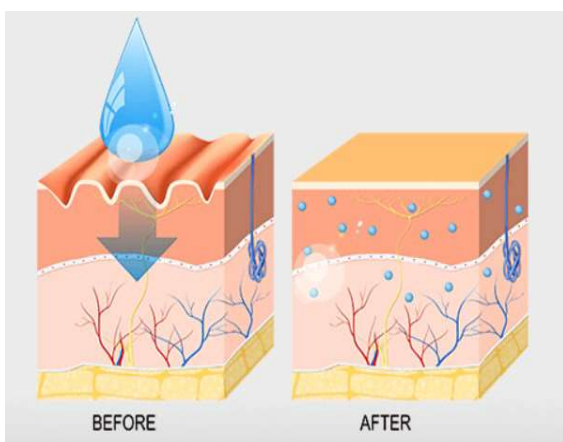


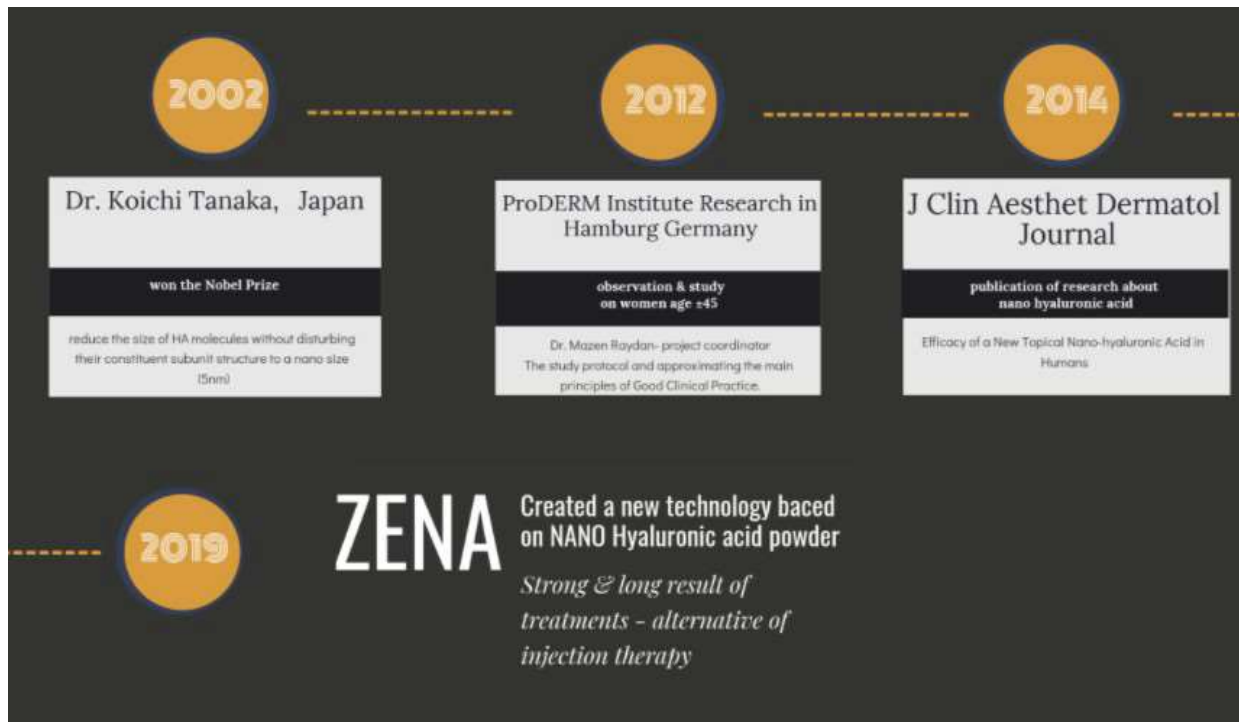
The aim of this study was to evaluate the **efficacy of a new topical low molecular nano-hyaluronic acid preparation in treating wrinkles**, skin hydration, and skin elasticity in humans. Thirty-three women with an average age of 45.2 were studied for a period of eight weeks to measure the anti-wrinkle efficacy of a new nano-hyaluronic acid.



The new nano-hyaluronic acid clearly demonstrated a significant benefit in decreasing:

- the depth of wrinkles (**up to 40%**),
- skin hydration (**up to 96%**)
- skin firmness and elasticity were significantly enhanced (**up to 55%**) at the end of eight weeks.





Company **Zena** took the best from the research of leading scientists and in 2019 created its innovative product that has no analogues in the world, its name is **Hyalnano Filling**, which consists of a powder and a solution **100% Nano hyaluronic acid**



All Nano hyaluronic acid powder and solution are **sterile** and can be use with any beauty device and **microneedling** therapy.

Hyalnano powder is spreading in the skin. Due to the small size of the **nano molecules**, hyaluronic acid penetrates deep into the derma and is spreading there. 3-4 days It pulls water, due to the powder it happens slowly and more efficiently.



TYPES OF USAGE

- Can be applied by dermapen (by professional cosmetologist only)
- It can be used to treat any area of the face and all kinds of wrinkles, even under the eyes
- Sterile and safe
- Long-term results (up to 1 year)
- The effect is visible after the first treatment

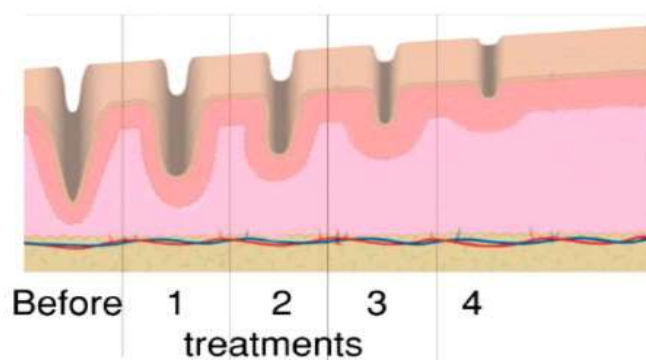


HYALNANO FILLING TREATMENT PROTOCOL

1. Cleanse the skin with an antiseptic (e. g. Chlorhexidine)
2. Sprinkle some powder on the area where you want to remove the wrinkle.
3. Penetrate the powder deep into the skin with a dermapen (dermapen is for professionals). For Dermapen you can use a nano needling or 36 or 12 needling cartridge. You should treat each one area for 2–5 minutes. Don't be afraid if your skin turns red or you see small drops of blood — this is normal. Total time of one treatment 30–40min.
4. After the powder penetrates, cover the skin with HyalNano serum and also penetrate with a dermapen. Approximately 10 min for this step.
5. You can finish the treatment by applying your favorite face mask to soothe your skin or LED mask. After that, it is also recommended to use any regenerating face cream.



Recommendations: 4-6 treatments
The interval between treatments 7-10 days



FAQ

1. HOW LONG DOES IT LAST IN THE SKIN?

Usually we recommend to make it as a course of 3-5 treatment. Effect will be last 8-12 months long, depending on skin types. For dry skin it maximum results!

2. HOW MUCH OF THE PRODUCT SHOULD I USE PER AREA ON THE FACE? AND WHAT DEPTH OF DEFORMATION, IS IT OK WITH 12 PIN? I SAW ALSO MIGHT BE WITH NANO CARTRIDGES.

You can use 12 or 36 pin. Usually nano pin given a deep hydration, but not as filler effect. Powder is sterile, so possible use even for very deep penetration

3. HOW MANY TIMES I HAVE TO PASS THE DEFORMATION ON THE SKIN TO ABSORB IT? OR IS IT JUST WHEN YOU SEE SKIN ABSORBED, IT'S ENOUGH?

At one area you need to stamping it 3-4 times. Around 30-40min on the face skin. Amount of powder depending on area and applying areas. From half to 1 ampoule of powder for 1 treatment.

HYALNANO FILLING TREATMENT RESULTS

FOTO BEFORE AND AFTER



SAFE PROCEDURE – GOOD RESULT!

All powered and liquid of ZENA HyalNANO Filling made from high quality raw materials, and sterile - designed for use with microneedles. You can also implement with help of beauty devices.