

A close-up, artistic photograph of a person's face, focusing on the eyes and lips. The eyes are brown and looking slightly to the right. The lips are pink and slightly parted. The background is a soft, out-of-focus light color.

# Mesotherapy, Injection Lipolysis & Derma-Roller

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# Mesotherapy


Pioneered by Frenchman Dr Michel Pistor in 1952, Mesotherapy is a A non-Surgical relatively painless injection procedure used to treat a broad range of conditions

It targets areas with *microinjections* of Vitamins, Minerals, Medications, Homeopathic Preparations

Microinjections are delivered directly into the *mesoderm* to promote body's circulatory, lymphatic and immune systems to create a biological response and reverse abnormal physiology



# Mesotherapy Applications

1. Hair re-growth/alopecia
  2. Face and Neck rejuvenation/ mesolifting (**Mesolift or MesoGlow**)
  3. Localized fat reduction
  4. Cellulite reduction & Stretch Marks
  5. Body sculpting
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# Mesotherapy for Hair Loss

- **Minoxidil:** Vasodilator that lengthens the Anagen phase by increasing Blood supply to the follicles
- **Dutasteride or Finasteride:** 5-AR inhibitor
- **Azelaic Acid:** 5-AR inhibitor
- **Zinc:** 5-AR inhibitor
- **Pyridoxine:** Vit B6 which potentates Zinc inhibitory Effect
- **D-Panthenol:** Vit B5 increases energy production in the follicles
- **Biotin:** Vti B7 or Vit H increases production of Fatty acids
- **Ginkgo Biloba:** Increases blood supply to follicles

# Mesotherapy for Hair Loss

**Biotin, Pyridoxine, Azelaic Acid, Zinc, D-Panthenol &  
Ginkgo Biloba (Keractive / MesoActive / Hairactive / Andropecia)**

**+/-**

**5AR inhibitors Dutasteride / Finasteride (Mesohair / Mesopecia)**

**Minoxidil (MesoAge)**

# Mesotherapy for Facial Rejuvenation

## Materials Injected

Hyaluronic Acid

Vitamins

Amino acids

Minerals

Coenzymes

Nucleic acids

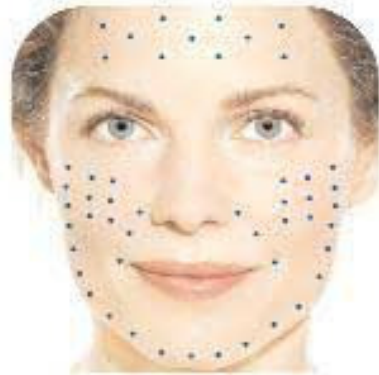




# Hyaluronic acid

- A polysaccharide called a glycosaminoglycan. AKA hyaluronan or hyaluronate,
- Hyaluronic acid occurs naturally in the human body and is central to regulating cell growth and renewal

# Restylane Vital





A close-up, artistic photograph of a person's eyes, looking directly at the camera. The eyes are brown and framed by long, dark eyelashes. The skin around the eyes is smooth and appears to be in good health. The background is a soft, out-of-focus yellow and white gradient.

# Vitamins

**Mesotherapy for facial rejuvenation includes all of the vitamins required for the good exogenous biological balance of the skin**

**Vitamin A** acts on the flexibility of the skin by regulating the growth of epidermic cells. By acting on the keratinisation process, it favours cicatrisation and partially corrects the thinning of the derma due to skin ageing.

**Vitamin E** is an anti-oxidant due to its major anti-radical properties. It maintains the integrity of tissue by fighting the formation of toxic peroxides.

**Vitamin C** helps stimulate the synthesis of collagen and inhibit the synthesis of melanin

**Vitamin D** is indispensable for the synthesis of calcium by the direct action on the phospho-calcic metabolism.

**Vitamin B and its sub-groups** are excellent anti-deficiency substances and are indispensable for the good biological balance of the skin.

**Vitamin K** plays a major role in the regulation of the micro-circulation.

## **AMINO ACIDS**

Amino acids are stable, water-soluble and amphoteric compounds that form the structural molecular elements in proteins. They are the basis of the tissue architecture of the skin.

## **MINERALS**

A mineral salt supplement is a sign of the stimulation of different cell activities and, as a result, an improvement in the different biological metabolisms. This is particularly true for the skin.

## **COENZYMES**

Coenzymes are non-protein organic compounds. When combined with an enzyme they improve the speed of metabolic reactions of the organism.

## **NUCLEIC ACIDS**

Transcutaneous supplements of nucleic acids stimulate the synthesis of the noble proteins of the



# Mesotherapy & Injection Lipolysis

*are they the same?*

- **Ingredients**

Standard: **phosphatidylcholine (PPC)**

Non Standard: Active or Homeopathic

- **Injection Level**

Mesoderm (deep dermis) **or** Subcutaneous fat



# Mesotherapy & Injection Lipolysis

	<b>lipolysis</b>	<b>Mesotherapy</b>
Standard Ingredients	<b>phosphatidylcholine (PPC)</b>	-----
Non Standard Ingredients	Active	Homeopathic
	<p><b>Sodium deoxycholate (DC)</b>  <i>A bile salt which emulsifies fat and facilitates its mobilization towards vascular system, used to keep PPC soluble and injectable, essentially keeping it in a liquefied solution</i></p> <p><b>L Carnitine</b>  <i>a nonessential amino acid necessary for fatty acids, to get into the mitochondria</i></p> <p><b>Rutin</b>  <i>Facilitates post-traumatic neoangiogenesis. It has anti-infectious effects.</i></p> <p><b>Yohimbe</b>  <i>Alpha 2 adrenergic receptor antagonist</i></p>	<p><b>Vitamins</b>  <b>Minerals</b>  <b>Aminoacids</b></p>

# Phosphatidylcholine (PPC)

*"The Miracle Molecule"*

- An integral component of every cell in the human body.
- Consumed regularly as part of our diet
- Plays a vital role in many important areas including maintaining cell structure, fat metabolism, memory, nerve signalling, as a precursor to important neurotransmitters, and liver health



# Phosphatidylcholine (PPC)

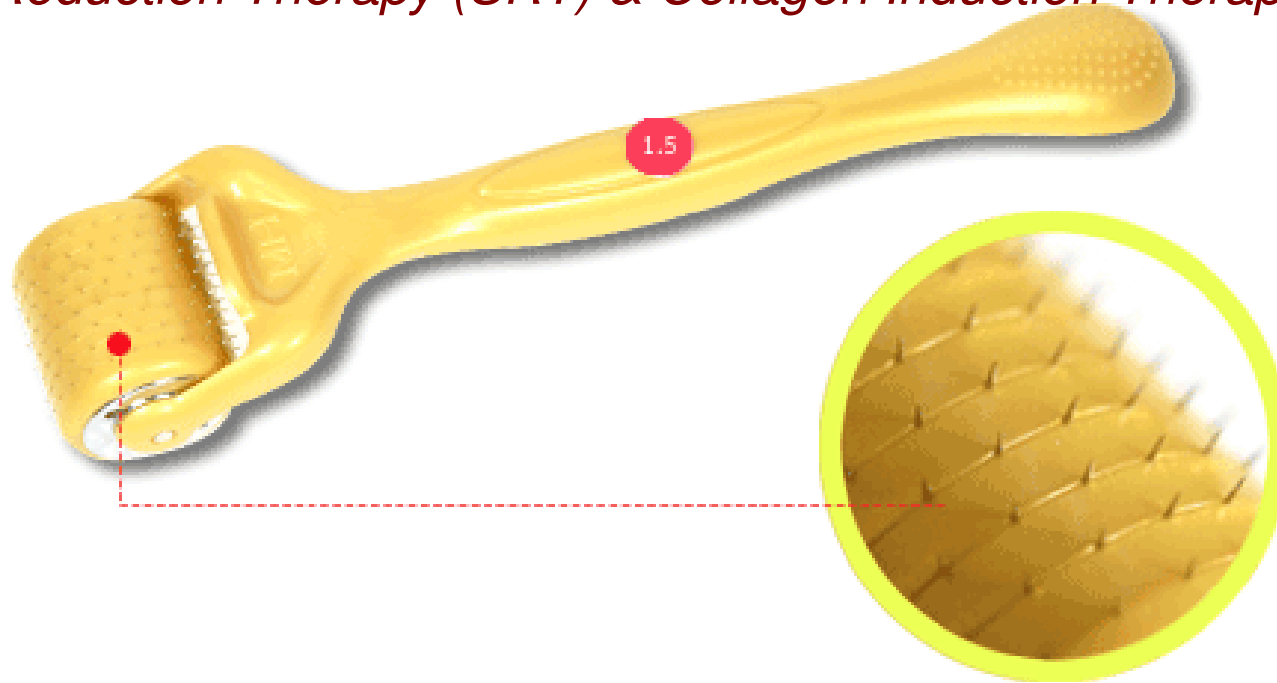
## Speculated Mode of action in Injection Lipolysis

- (PPC) or (DC) or Both can cause Fat Cell wall destruction
- (PPC) Emulsifies the stored triglycerides
- (PPC) activates lipases, which break down triglycerides to fatty acids
- (PPC) possibly stimulates beta-receptors or inhibits alpha-2 receptors



# Derma-Roller

*Scar Reduction Therapy (SRT) & Collagen Induction Therapy (CIT)*



A close-up, artistic rendering of a pair of human eyes with light brown irises and long, dark eyelashes. The eyes are looking directly forward. The background is a soft, warm gradient of yellow and orange, suggesting a bright, sunny environment. The title 'Derma-Roller' is centered over the eyes in a large, bold, black font.

# Derma-Roller

- Extremely high absorption of any type of chemical substance
- Collagen induction through controlled mechanical stimulation of the dermis, thus promoting "new" skin formation to **repair pitted & deep acne scars**
- It can be done on thin skin, face, neck and body
- **Realignment of old collagen bundles**
- Complete preservation of the epidermis during the procedure
- **No permanent damage to the skin**
- Very rapid healing within 48 hours

A close-up, artistic photograph of a person's eyes, looking directly at the camera. The eyes are brown and framed by long, dark eyelashes. The background is a soft, out-of-focus yellow and white gradient.

# Scalp Roller with Mesotherapy for Hair Loss

**Creates tiny channels through stratum corneum which facilitate the passage and absorption of Minoxidil into the dermis to maximize it's absorption by the hair follicles.**

**Stimulates blood flow to the hair follicles via direct scalp massage**

**Gently exfoliate excess skin cells which accumulate in the hair follicles, contributing to hair follicle malnutrition**