Mesotherapy, Injection Lipolysis & Derma-Roller

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Mesotherapy

Pioneered by Frenchman Dr Michel Pistor in 1952, Mesotherapy is 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
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**: Vit 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
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

<table>
<thead>
<tr>
<th>Standard Ingredients</th>
<th>Non Standard Ingredients</th>
<th>Mesotherapy</th>
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<tbody>
<tr>
<td><strong>lipolysis</strong></td>
<td><strong>Active</strong></td>
<td><strong>Homeopathic</strong></td>
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<tr>
<td><strong>phosphatidylcholine (PPC)</strong></td>
<td></td>
<td><strong>Vitamins</strong></td>
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<tr>
<td><strong>Sodium deoxycholate (DC)</strong></td>
<td><strong>L Carnitine</strong></td>
<td><strong>Minerals</strong></td>
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<td><em>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</em></td>
<td><em>a nonessential amino acid necessary for fatty acids, to get into the mitochondria</em></td>
<td><strong>Aminoacids</strong></td>
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<td><strong>Rutin</strong></td>
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<td><em>Facilitates post-traumatic neoangiogenesis. It has anti-infectious effects.</em></td>
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<td><strong>Yohimbe</strong></td>
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<td><em>Alpha 2 adrenergic receptor antagonist</em></td>
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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)
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
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