

mesohyal®



intradermal solutions
by mesoestetic®



the most extensive range of
intradermal solutions

mesoestetic®

The intradermal route in aesthetic medicine

Use of the ID route is a medical procedure that consists of localised, superficial micro-injections into the skin to correct multiple aesthetic manifestations, such as wrinkles, photoaging of the skin, dehydration, flaccidity, cellulitis and alopecia, among others.

Direct administration

The product is administered in the area to be treated and efficacy is increased by crossing the epidermal barrier.

Micro-dosing

Maximises absorption capacity and improves skin response.

Physical stimulation

The action of the needle triggers a physical reaction, stimulating tissue repair and regeneration.

Multiple indications

These solutions make it possible to treat facial, body and capillary blemishes.

Minimally invasive procedure

Does not require preparation or recovery and allows the patient to return to daily life immediately.

Combined modalities

A technique that is perfectly compatible with other common medical-aesthetic procedures, such as fillers, botulinum toxin, threading and chemical peels, thereby improving and maintaining results.

Recognised worldwide

The technique is used and recognised by thousands of specialists all over the world.



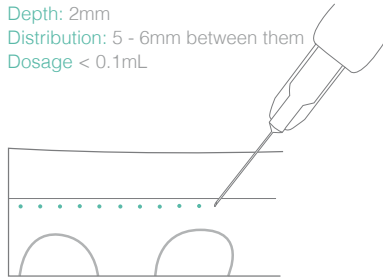
Recommended techniques



Intradermal nappage

Indicated in almost all intradermal treatments for its extremely high efficacy and minimal side effects.

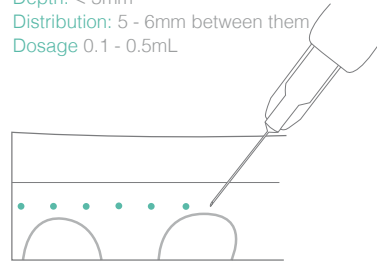
Recommended needle 4mm
Depth: 2mm
Distribution: 5 - 6mm between them
Dosage < 0.1mL



Point-to-point

Intradermal injections with a higher volume than nappage which boost the action in certain zones.

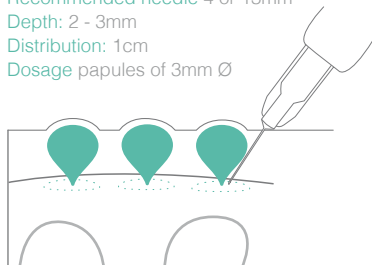
Recommended needle 4mm
Depth: < 3mm
Distribution: 5 - 6mm between them
Dosage 0.1 - 0.5mL



Intradermal papule

Indicated in cases where it is necessary to leave a reservoir in the dermis for a longer-lasting effect.

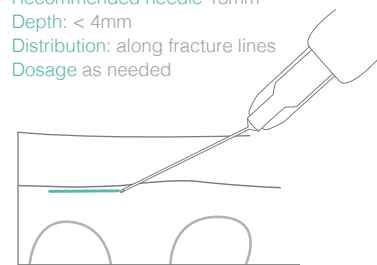
Recommended needle 4 or 13mm
Depth: 2 - 3mm
Distribution: 1cm
Dosage papules of 3mm Ø



Tracing

The objective is to administer the product longitudinally in areas with skin fracture in order to attenuate furrows and fine wrinkles.

Recommended needle 13mm
Depth: < 4mm
Distribution: along fracture lines
Dosage as needed



Assisted technique: **mct injector**[®]

Electronic device that combines 2 complementary techniques

- **Intradermal**

3 programmes the professional can use to modulate the administered dose and the depth and speed of the needle* for greater precision and comfort for the specialist, with nappage, point-to-point and retro-tracing techniques.

- **Carboxytherapy**

CO₂ injection system that improves microcirculation, increases oxygenation and stimulates collagen synthesis

* Recommended needle: To use this technique, a concentric cone syringe should be used instead of a Luer-Lock.



Techniques according to the area of application

Capillary

Recommended syringe: 5 mL



Injection zones:

- scalp

facial

Recommended syringe: 5 mL



Injection zones:

- forehead and glabella wrinkles*
- nasolabial folds
- labial area
- facial contour
- neck
- bust area
- external periocular area*



* Only with nappage technique and depth <0.5 mm

body

Recommended syringe: 5 or 10 mL



Injection zones:

- arms
- back
- lumbar region
- abdomen
- flank
- buttocks
- back of the hands
- thighs
- knees

General recommendations for use

- Use of three-piece Luer Lock syringes.
- 30G or 32G needles, 4 or 13 mm in length, depending on the technique.
- Do not exceed an injection depth of 3 mm.
- Bevel facing upwards in the retro-tracing technique.



mesohyal™

key features

Proven efficacy

The **mesohyal** range has been tested *in vitro* and *in vivo* to guarantee the maximum therapeutic response and dermal tolerance.

Sterile devices

Packaging that preserves the quality and efficacy of the active ingredients over time.

Free hyaluronic acid base

All **mesohyal** products are formulated with high-quality free hyaluronic acid of biotechnological origin.

CE marking

Symbol that certifies and endorses the quality and safety guarantee system.¹

Pharmaceutical rigour

Products developed in accordance with pharmaceutical quality standards.



mesohyal™:

11 references that offer personalised solutions

mesohyal NCTC 109



Overall antiaging, revitalisation.

Multivitamin solution with amino acids, mineral salts, coenzymes and hyaluronic acid.

5 vials x 5 mL

mesohyal HYALURONIC



Rehydration, redensification.

Solution with a high concentration of non-reticulated hyaluronic acid.

5 vials x 3 mL

mesohyal X-DNA



Protection of the cell membrane, tissue repair.

Highly polymerised sodium deoxyribonucleate in a hyaluronic acid solution.

5 vials x 3 mL

mesohyal VITAMIN C



Luminosity, tone uniformity, antioxidant.

Hyaluronic acid solution with ascorbic acid (20%) and mineral salts.

20 ampoules x 5 mL

mesohyal ORGANIC SILICON



Regeneration and tissue restructuring.

Hyaluronic acid solution with organic silicon.

20 ampoules x 5 mL

mesohyal DMAE



Elasticity and firmness.

Hyaluronic acid solution with a high concentration of dimethylaminoethanol (DMAE).

20 ampoules x 5 mL

mesohyal OLIGOELEMENTS



Stimulation of the extracellular matrix.

Hyaluronic acid solution with a combination of 9 oligoelements (Zn, Mn, Mb, Ni, Co, Se, Cu, Mg, Vn).

20 ampoules x 5 mL

mesohyal CARNITINE



Lipolytic, favours fat metabolism.

High concentration of L-carnitine in a hyaluronic acid base.

20 ampoules x 5 mL

mesohyal ARTICHOKE



Draining, anti-cellulite, detoxifying.

Artichoke extract in a hyaluronic acid base.

20 ampoules x 5 mL

mesohyal BIOTIN



Reactivation of the capillary metabolism.

Hyaluronic acid solution with biotin, B vitamins and mineral salts.

20 ampoules x 2 mL

mesohyal MELILOT



Favours microcirculation.

Hyaluronic acid solution with sweet clover extract, troxerutin and mineral salts.

20 ampoules x 2 mL

mesohyal™ facial indications:

Normalisation of tone, luminosity and biorevitalisation.

Reasons for consultation	Actions
<ul style="list-style-type: none">· Parchment-like and aged appearance and texture· Uneven skin tone· Dullness· Antiaging	<ul style="list-style-type: none">· Cellular revitalisation²· Antioxidant· Normalisation of tone³

Recommended treatment protocol “skin recharge C”:



Following the 5 treatment sessions, perform maintenance every 3-6 months.

Efficacy demonstrated in *in vivo* and *in vitro* studies

mesohyal NCTC109 and **mesohyal VITAMIN C** combat oxidation and boost the luminosity of the skin⁴:

-94%
Reduced
oxidation⁵

-33%
Reduced melanin
synthesis⁶

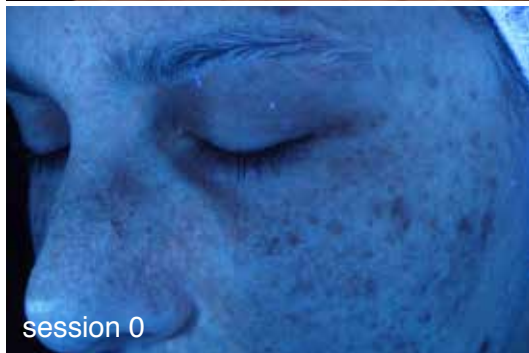
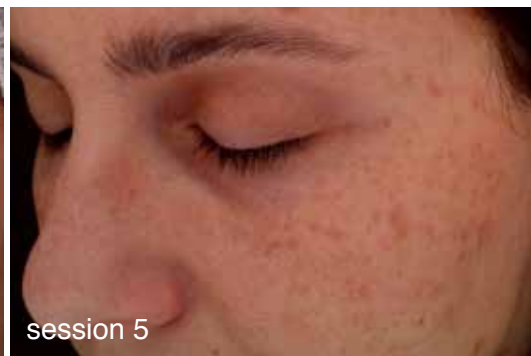
mesohyal™ facial clinical cases

Gender: female Age: 47 Phototype:III



Overall unification of skin tone and improved luminosity.

Gender: female Age: 39 Phototype:III



Improved luminosity and reduced hyperpigmentation in the malar area.

mesohyal™ facial indications:

correction of wrinkles and rejuvenation of the skin.

Reasons for consultation	Actions
<ul style="list-style-type: none">· Wrinkles and expression lines· Dry skin· Thin skin	<ul style="list-style-type: none">· Dermal regeneration⁷· Collagen synthesis⁸· Increased elasticity⁹· Hydration¹⁰

Recommended treatment protocol “age skin repair”:



Following the 5 treatment sessions, perform maintenance every 3-6 months.

Efficacy demonstrated in *in vivo* and *in vitro* studies

mesohyal HYALURONIC and **mesohyal ORGANIC SILICON** promote a noticeable improvement of skin elasticity and intense renewal:

+93%
Dermal
regeneration¹¹

+20%
Skin
elasticity¹²

mesohyal™ facial

clinical cases

Gender: female **Age:** 47



Improvement of 'bar codes'.

Gender: female **Age:** 46



Reduction of cutaneous expression lines in the forehead area.

Gender: female **Age:** 44



Redensification in the peribuccal area. Generalised increase in skin hydration.

mesohyal™ facial indications: firming, lifting action

Reasons for consultation	Actions
<ul style="list-style-type: none">· Loss of density· Wrinkles· Loss of firmness	<ul style="list-style-type: none">· Firmness· Collagen synthesis¹³· Skin redensification¹³

Recommended treatment protocol “skin firm & lift”:



Following the 5 treatment sessions, perform maintenance every 3-6 months.

Efficacy demonstrated in *in vitro* and *in vivo* studies:

mesohyal X-DNA and **mesohyal DMAE** increase collagen synthesis and skin firmness:

+28% +26% +15%

Collagen synthesis¹⁴ Skin firmness¹⁵ Dermal density¹⁶

mesohyal™ facial clinical cases

Gender: female Age: 49



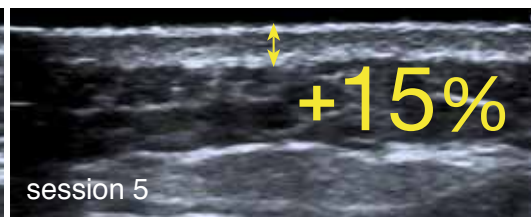
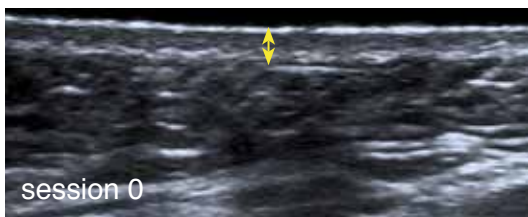
Improved firmness in the periauricular and malar area.

Gender: female Age: 49



Reduction of external perioral lines.

Ultrasound measurement of the cutaneous tissue¹⁷:



Significant increase in dermal thickness (+15%).

mesohyal™ capillary indications: strengthening and increase in hair density

Reasons for consultation	Actions
<ul style="list-style-type: none">· Capillary weakness and fragility· Dry scalp· Seasonal hair loss· Progressive hair loss	<ul style="list-style-type: none">· Capillary nutrition¹⁸· Increased capillary density¹⁹· Increased hair thickness¹⁹

Recommended treatment protocol “tricology”:



Following the 5 treatment sessions, perform maintenance every 1-2 months.

Efficacy demonstrated in *in vivo* and *in vitro* studies

mesohyal NCTC 109 and **mesohyal BIOTIN** improve hair density and diameter:

+28%
Average hair
density²⁰

+6%
Average hair
diameter²⁰

mesohyal™ capilar

clinical cases

Gender: Male **Age:** 36



Generalised increase in the density and diameter of the hair in the entire scalp area.

Gender: Male **Age:** 43



Significant increase in hair density and diameter in the frontal-parietal zone.

mesohyal™ body indications: draining, lipolytic, reaffirming

The main function of sweet clover

Body alterations have the common nexus of vascular deficiency, therefore body protocols recommend the administration of **mesohyal MELILOT** due to its activation of microcirculation, which will help to eliminate fat and reduce oedema.

Recommended treatment protocols “body global”:

The following protocols are an indicative treatment guide for the physician and are supported by clinical cases that demonstrate their efficacy. They are differentiated according to the main component of the area to be treated, whether this be excess fat, fluid retention or lack of firmness.

They are structured in two consecutive 5-session phases, comprising a complete treatment of **10 sessions administered once a week**:



Indications: fluid retention, skin with venous insufficiency and generalised tissue tightening.

Desired effect: drainage, reduce capillary oedema, activate return venous circulation and firm tissues.

mesohyal™ body indications: draining, lipolytic, reaffirming



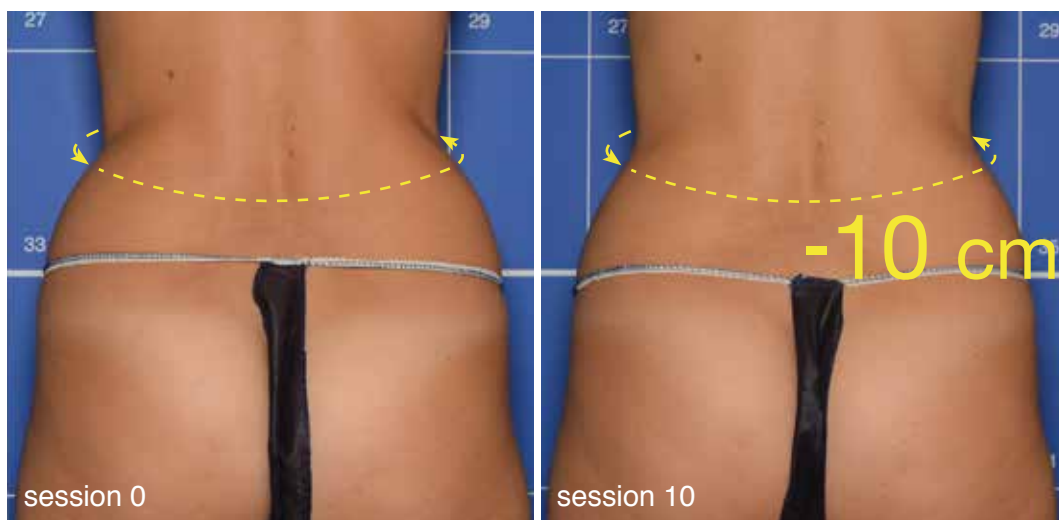
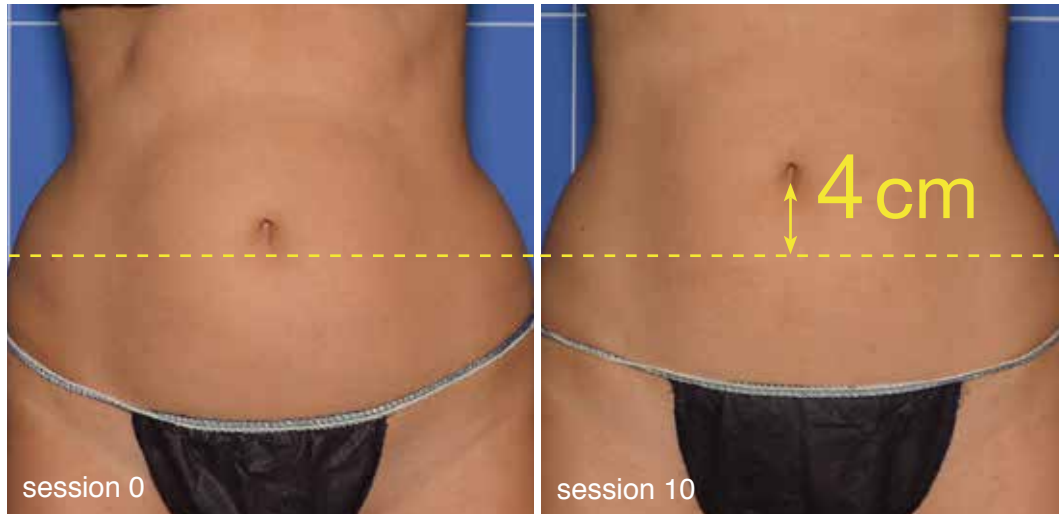
Indications: orange-peel skin, skin with adiposity with a hard consistency and stretch marks.
Desired effect: fat reduction (lipolysis), inhibition of lipogenesis, and increased drainage.



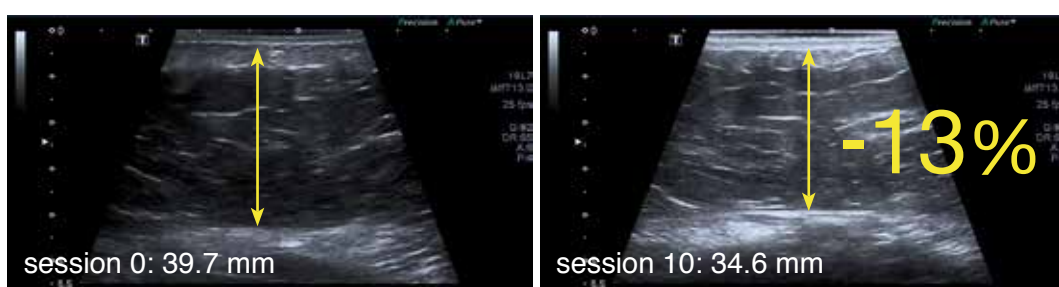
Indications: drooping, tissue lacking consistency, and adiposity.
Desired effect: firm, restructure and activate microcirculation.

mesohyal™ corporal clinical cases

Following the lipolytic protocol, an elevation of the tissue and a significant reduction in the abdominal contour of 10 cm, particularly visible in the flank areas, was observed²¹:

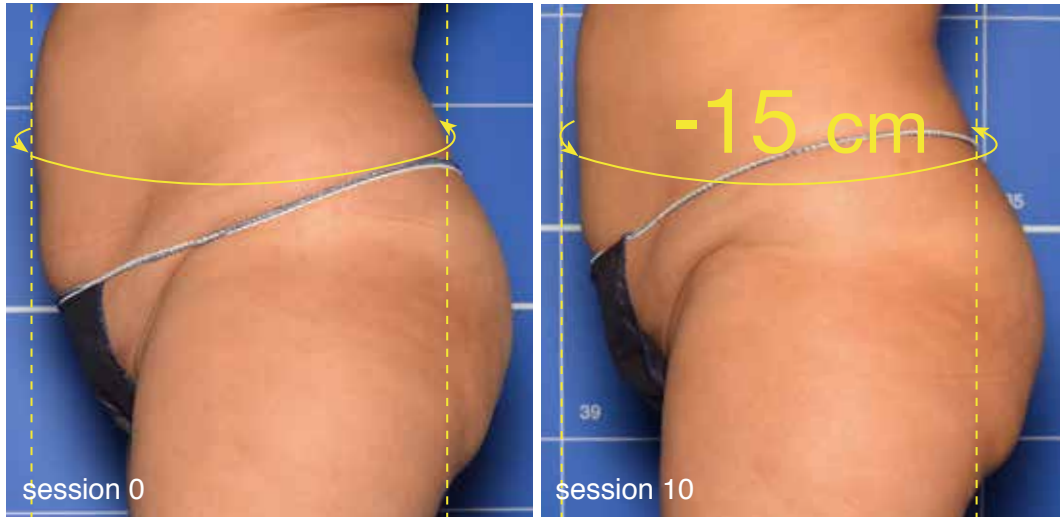


Ultrasound measurement of the adipose tissue²²:

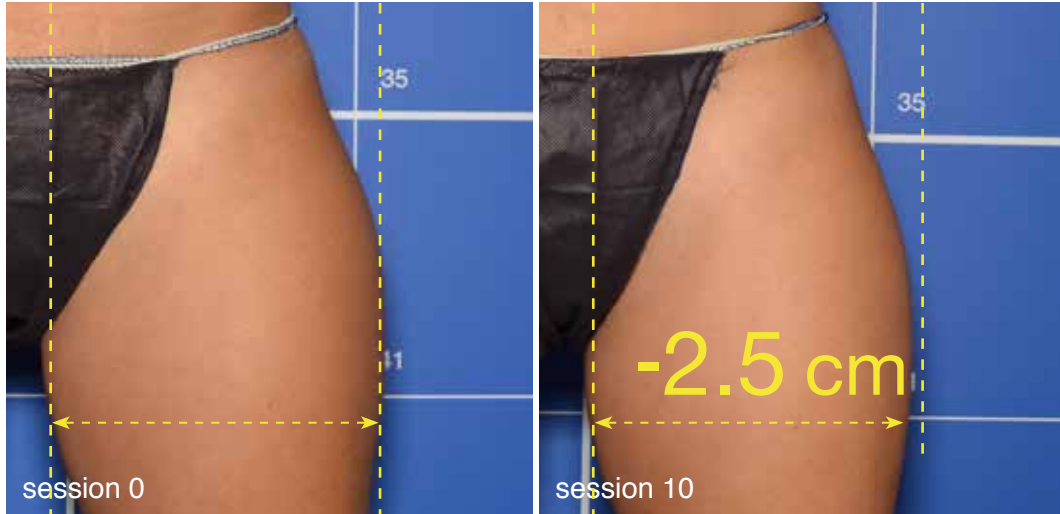


mesohyal™ corporal clinical cases

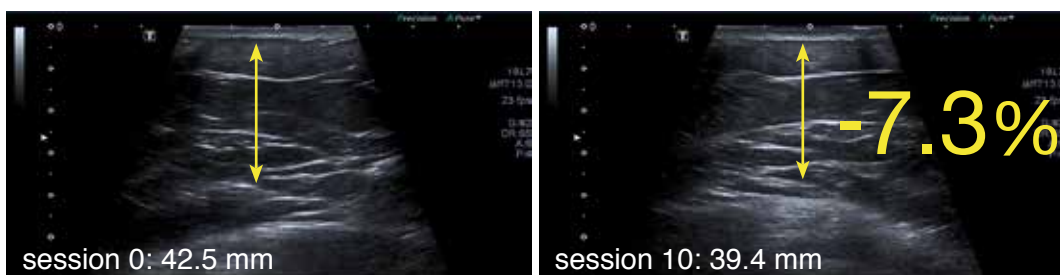
Reduction of the abdominal contour of 15 cm due to the intensive drainage and lipolytic action of the treatment administered²¹:



Reduction of 2.5 cm in the thickness and prominence of the adiposity located on the external face of the upper thigh, as well as improvement in tissue quality²¹:



Ultrasound measurement of the adipose tissue²²:





- The most complete and extensive range of healthcare products for intradermal administration.
- CE marking: guarantee of safety and efficacy.
- Versatile treatment designed for individual application or administration of personalised applications to cover multiple facial, body and capillary indications.
- Exclusive formula with a hyaluronic acid base and active ingredients of recognised therapeutic efficacy.
- Ideal for combining with other medical procedures (botulinum toxin, fillers, peeling, laser, pulsed light, etc.).



1. Intradermal medical devices are controlled by independent official bodies that certify their quality through the CE marking. 2. Purni Saokar Telang. Vitamin C in dermatology. Indian Dermatol Online J. 2013 Apr-Jun; 4(2): 143-146 3. Taylor MB, Yanaki JS, Draper DO, Shurtz JC, Coglianese M. Successful short-term and long-term treatment of melasma and postinflammatory hyperpigmentation using vitamin C with a full-face iontophoresis mask and a mandelic/malic acid skin care regimen. J Drugs Dermatol 2013 Jan; 12(1):45-50. 4. Carr AC, Frei B. Toward a new recommended dietary allowance for vitamin C based on antioxidant and health effects in humans. Am J Clin Nutr. 1999; 69(6):1086-1107. 5. Biotechnology Unit. Study of antioxidant capacity in response to the DPPH radical for Mesohyal Vitamin C. mesoestetic Pharma Group S.L. 2015. 6. Biotechnology Unit. Study of melanin synthesis for Mesohyal Vitamin C. mesoestetic Pharma Group S.L. 2015. 7. Iorizzo M, De Padova MP, Tosti A. Biorejuvenation: theory and practice. Clinics in Dermatology 2008; 26, 177-181. 8. Kessler D, Dethlefsen S, Haase I, Plomann M, Hirche F, Krieg T, Eckes B. Fibroblasts in mechanically stressed collagen lattices assume a "synthetic" phenotype. J Biol Chem. 2001 Sep 28; 276(39):36575-85. Epub 2001 Jul 23. 9. S. Robin, C. Courderot-Masuyer, H. Tauzin, S. Guillon, J. Gaborit, S. Harbon, P. Humbert. Evaluation of protective and restoring effects of a mixture of silanols on photoaging. Use of a device allowing the quantification of contractile strengths of human fibroblasts after UVA irradiation. International Journal of Cosmetic Science, 2012; 34, 311-317. 10. Monheit GD, Coleman KM. Hyaluronic acid fillers. Dermatol Ther 2006; 19:141-50. 11. Biotechnology Unit. Study of the dermal regeneration capacity (fibroblast proliferation and migration) of mesohyal hyaluronic. mesoestetic Pharma Group S.L. 2016. 12. Galcerán F, Lorente E, Vidal R. Study of skin elasticity and hydration following intradermal administration of mesohyal HYALURONIC - mesohyal ORGANIC SILICON. mesoestetic Pharma Group S.L. 2016. 13. P Sini, A Denti, G Cattarini, M Daglio, M E Tira, C Balduini. Effect of Polydeoxyribonucleotides on Human Fibroblasts in Primary Culture. Cell Biochem. Funct. 1999; 17, 107-114. 14. Biotechnology Unit. Study of the collagen synthesis capacity of mesohyal X-DNA. mesoestetic Pharma Group S.L. 2016. 15. Galcerán F, Lorente E, Vidal R. Study of skin firmness and hydration following intradermal administration of mesohyal X-DNA - DMAE. mesoestetic Pharma Group S.L. 2016. 16. Vidal R. Ultrasound assessment of dermal density (dermal plane) following administration of mesotherapy (mesohyalTM). mesoestetic Pharma Group S.L. 2016. 17. Vidal R. Ultrasound assessment of cutaneous tissue following administration of mesotherapy (mesohyalTM). mesoestetic Pharma Group S.L. 2016. 18. Kasprzyk E., Centro C., Efreimovskii S., Morton R. A new vegetable alternative to keratin treatments. Industria Cosmética 2016. 001. 50-54 19. Trüeb RM. Serum Biotin Levels in Women Complaining of Hair Loss. Int J Trichology. 2016; Apr-Jun; 8(2):73-7 20. Galcerán F, Lorente E, Vidal R, et al. Study of increase in hair strength and density through intradermal administration of mesohyal NCTC 109 y mesohyal Biotin. mesoestetic Pharma Group S.L. 2016. 21. Galcerán F, Lorente E, Vidal R, Luis L. Study of the drainage, lipolytic and firming effect following administration of mesotherapy (mesohyalTM) as a body treatment. mesoestetic Pharma Group S.L. 2017. 22. Vidal R. Ultrasound assessment of adipose tissue (subcutaneous plane) of mesotherapy (mesohyalTM). mesoestetic Pharma Group S.L. 2017.

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