

mesoestetic®

.com



meso.prof
maximum purity,
quality and concentration
of active ingredients

meso.prof

The most comprehensive range of solutions and specific active ingredients in autoclaved vials and ampoules to be integrated with transepidermal penetration devices and systems to address aesthetic problems of the face, body and capillaries.

The **meso.prof** range has two lines:



ACTIVES PROFESSIONAL SOLUTIONS

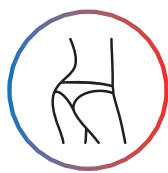
c.prof

Active ingredient cocktails to address specific indications.



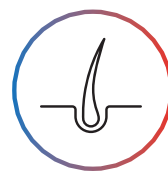
facial

- Provides hydration
- Provides radiance
- Firming
- Anti-wrinkles
- Skin redensifying
- Depigmentant



body

- Draining
- Lipolytic
- Firming
- Anti-cellulite
- Anti-stretch marks
- Improves microcirculation



hair

- Anti-hair loss



ACTIVES PROFESSIONAL SOLUTIONS

x.prof

Single substances to design 100% customised treatments.

Key characteristics of meso.prof

efficacy

High concentrations of highly effective active ingredients.

safety

Autoclaved vials and ampoules that retain their properties over time.

quality

High pharmaceutical quality standards.

versatility

Synergy with transcutaneous delivery devices and systems.



Protocol treatment at the clinic



phase 1: skin preparation

Clean the skin with **hydramilk** and tone with **hydratonic**. Degrease with **pre-procedure cleansing solution** and disinfect with chlorhexidine or alcohol. Protect sensitive areas with **mesolips protector**.

PRE-TREATMENT



phase 2: skin renewal

Perform the peel following the protocol determined at the professional's discretion.
Optional phase dependent on skin tolerance.

TREATMENT



phase 3: contribution of actives ingredients

Apply products from the **meso.prof** range suitable for the indication to be treated with the selected delivery system.



phase 4: skin recovery

POST-TREATMENT

Apply **crystal fiber mask** and leave on for 20 minutes.



phase 5: end

Apply **mesoprotech**® range photoprotection suitable for each skin type.



actives professional solutions

c.prof • Active ingredient cocktails to address specific indications.

Biomimetic peptides

Sequences of amino acids structurally identical to those of peptides present on the skin and that, therefore, imitate their natural functions in the human body.



c.prof 213

mesotox solution

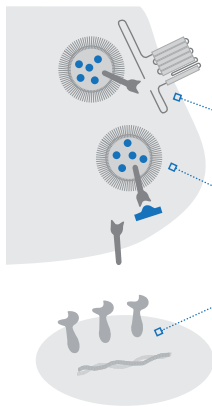
Reducing and preventive action in the appearance of expression lines. Two synergistic peptides that work on the inhibition of dermal microcontractions.

indications:

- Dynamic wrinkles
- "Botox-like" effect

active ingredients:

- Acetyl hexapeptide-8
- Pentapeptide-18
- Niacinamide



"Botox-like" peptides

1. Closure of the Ca^{2+} channels **Pentapeptide-18**
2. Destabilisation of the SNARE complex **Acetyl Hexapeptide-8**
3. Blocking of neurotransmission and inhibition of muscle contraction

Fig.1. Neuromuscular junction (control) and biochemical mechanism scheme of Acetyl Hexapeptide-8 and Pentapeptide-18 peptides during neuronal exocytosis (c.prof 213 mesotox solution) (1)



c.prof 214

mesopeptide solution

Redensifying and tightening action. Biomimetic peptides favour skin redensification thanks to the collagen induction activity and its improvement in the organisation of fibrils.

indications:

- Thin and aged skin
- Loss of the facial oval definition and sagging

active ingredients:

- Palmitoyl Tripeptide-5
- Acetyl Tetrapeptide-9
- Hyaluronic Acid



Fig.2. Acetyl Tetrapeptide-9 stimulates the optimal organisation between fibrils.

Lumican



c.prof 210

depigmentation solution

Depigmenting and antioxidant action that corrects melanin overproduction.

indications:

- Moderate hyperpigmentation: solar or senile lentigo
- PIH (post-inflammatory hyperpigmentation) in all phototypes
- Dyschromia and dull skin

active ingredients:

- Tranexamic acid
- N-acetyl glucosamine
- Vitamin C
- Idebenone



c.prof 211

photoaging solution

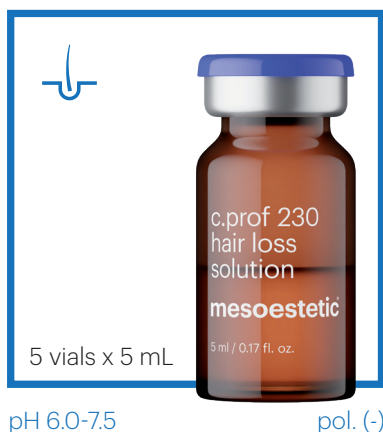
It counteracts the skin's own manifestations of photoaging thanks to its **antioxidant, moisturising and firming action.**

indications:

- Treatment of fine wrinkles
- It counteracts the loss of tonicity and provides radiance
- Dyschromia and unification of tone

active ingredients:

- Idebenone
- Vitamin C
- Hyaluronic acid
- Taurine



c.prof 230

hair loss solution

Revitalising and activating action in hair growth.

Slows hair ageing, revitalising and strengthening the hair.

indications:

- Reacting, seasonal loss or caused by nutritional deficit in both sexes
- It improves microcirculation and the contribution of nutrients to the follicle, revitalising and strengthening it

active ingredients:

- Copper Tripeptide-1
- Vit-B complex (biotin, dexpanthenol and pyridoxine)
- Zinc
- Capsaicin and caffeine



c.prof 231

dutexome solution

Controls hair loss by normalizing hair cycles, inhibits the formation of DHT, increases hair density and reduces the miniaturisation of hair follicles.

indications:

- Loss due to hormonal factors in both sexes
- Regulates the hair cycle by increasing hair thickness and density
- Improves hair follicle's anchorage
- Activates microcirculation and the provision of nutrients to the follicle

active ingredients:

- 0.05% dutasteride
- Aloe vera exosomes
- Copper-1 Tripeptide
- Vit-B complex (biotin, dexpanthenol and pyridoxine)

actives professional solutions

c.prof • draining target



c.prof 220 draining solution

Draining, decongestant, venotonic, antioxidant and firming action.

indications:

- Circulatory disorders
- Fluid retention

active ingredients:

- Sweet clover
- Rutin
- *Ginkgo biloba*
- Aescin

c.prof • lipolysis and cellulite target



c.prof 221 lipolytic solution

Fat mobilising action. Increases lipolysis in adipocytes, reducing the size of fat deposits.

indications:

- It contributes to reducing body fat and adiposity located in the double chin
- It improves the appearance of the silhouette, cellulite and orange peel skin

active ingredients:

- Artichoke extract
- Organic Silicon
- Theobromine
- Caffeine
- L-Carnitine

c.prof • firming objective



c.prof 222 body firming solution

Body firming action: skin trophic, firming and tightening effect.

indications:

- Skin flaccidity of the thighs, arms, abdomen, sides and buttocks

active ingredients:

- Hydroxyproline
- Organic Silicon
- DMAE
- Sodium Pyruvate

c.prof • specific indication: cellulite



c.prof 224 cellulishock solution

Action with a cellulite reducing and smoothing effect. Venotonic and decongestant effect. Activates the metabolism and degradation of fatty acids, reducing the volume of adipocytes.

indications:

- Cellulite in all its forms and degrees of evolution
- Reduction of fat nodules

active ingredients:

- Caffeine
- Rutin
- Capsaicin
- L-Carnitine

c.prof • specific indication: stretch marks and scars



c.prof 223 skinmark solution

Restructures skin imperfections such as stretch marks, scars. Moisturising and firming action.

indications:

- It improves the appearance of stretch marks
- Post-acne and body scars
- Skin repair

active ingredients:

- X-DNA (polynucleotides)
- Organic silicon
- Extract of *Chlorella vulgaris*
- Darutoside

bodycare professional solutions

body solutions • bodyshock® and grascontrol®

Range of customized body solutions with professional products, home products and nutritional supplements.

They treat on a customized basis the main body concerns.



actives professional solutions

x.prof • Single substances to design 100% customized treatments.



pH 6.0-8.0

N/A

composition:

- 3.5% hyaluronic acid

x.prof 108 hyaluronic acid Moisturising and antiaging

indications:

- Skin aging with wrinkles and sagging
- Loss of volume
- Dehydration



pH 4.0-7.0

N/A

composition:

- Vitamins, amino acids, mineral salts, coenzymes

x.prof 109 bioflash NCTC-109 Biorevitalising

indications:

- Skin ageing
- Devitalised skin



pH 6.5-7.5

N/A

composition:

- Powder glutathione

x.prof 151 glutathione Antioxidant

indications:

- Hyperpigmentation
- Skin photoaging
- Loss of radiance



pH 5.5-7.5

N/A

composition:

- 3% polynucleotides

x.prof 110 X-DNA gel Regenerating

indications:

- Skin repair and regeneration
- Dehydrated, dry and opaque skin
- Facial aging with flaccidity and sagging



pH 5.9-7.0

pol. (-)

composition:

- 0.5% Centella asiatica extract

x.prof 040 centella asiatica ampoules Repairer and vasoprotector

indications:

- Sensitive skin
- Damaged or irritated skin
- Scars and stretch marks



pH 4.8-6.4

pol. (+)

composition:

- 1% organic silicon

x.prof 014 1% organic silicon ampoules Firming

indications:

- Devitalised and aged skin
- Stretch marks
- Cellulite
- Flaccidity



Study in vitro

Inhibition of ROS



pH 5.5-7.5

pol. (-)

composition:

- 20% Vitamin C

x.prof 02020% vitamin C
ampoules**Brightening**

indications:

- Photoaging
- Devitalised, dull or
sallow skin

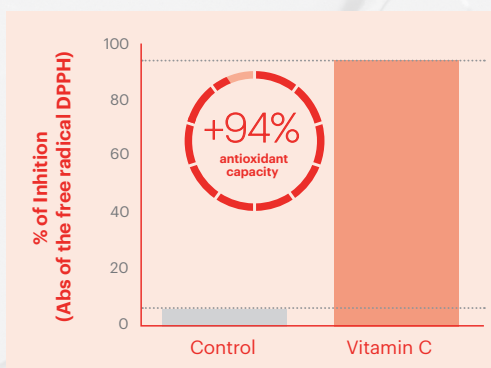


Fig 4. Culture of human fibroblasts with Vitamin C vs control. It is noted that Vitamin C has an antioxidant effect through the inhibition of ROS. Quantified by absorbance of the free radical DPPH. (3)



pH 4.0-6.0

pol. (+)

composition:

- 3% dimethylaminoethanol

x.prof 0213% DMAE
ampoules**"Lifting" effect**

indications:

- Skin flaccidity
- Lack of skin tone



pH 6.5-8.5

pol. (+)

composition:

- 20% caffeine

x.prof 011

caffeine ampoules

Fat mobiliser

indications:

- Skin with any type of
cellulite
- Skin with localised fat
nodules



pH 3.5-4.5

pol. (+)

composition:

- Extract of *Cynara
scolymus***x.prof 010**artichoke extract
ampoules**Drainer and
detoxifier**

indications:

- Cellulite and localised
adipose deposits
- Improves the
appearance of the
silhouette
- Fluid draining



pH 5.0-7.0

pol. (-)

composition:

- Extract of sweet clover
200 mg and rutin 50 mg**x.prof 015**melilot and rutin
extract**Activates
microcirculation
and drainer**

indications:

- Cellulite with fluid
retention
- Circulatory disorders
- Under-eye circles and
bags

actives professional solutions



pH 6.0-8.0

pol. (-)

composition:

- 20% L-carnitine

x.prof 012 L-carnitine ampoules Lipolytic

indications:

- Skin with cellulite
- Skin with localised fat nodules



Study in vitro

Lipolysis

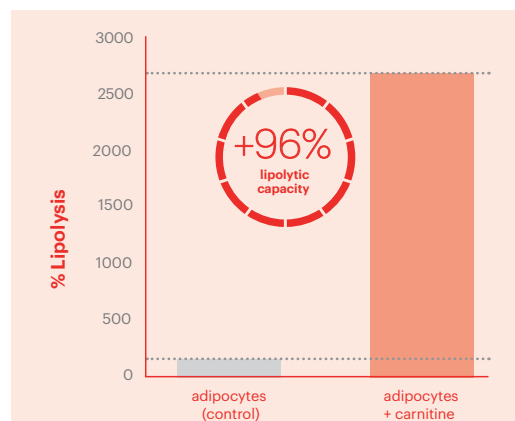
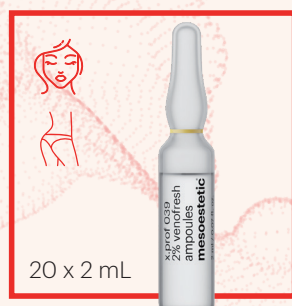


Fig 5. Increased lipolytic capacity in a culture of human adipocytes supplemented with carnitine after 3 hours of application, compared to a culture of untreated adipocytes. (4)



references for medical use only



pH 5.0-7.0

N/A

composition:

- 9 to 2% Laureth

x.prof 039 2% venofresh ampoules Venotonic

indications:

- Spider and varicose veins
- Couperose



pH 3.8-5.5

pol. (+)

composition:

- Polyunsaturated phosphatidylcholine

x.prof 018 mesostabyl Lipolytic

indications:

- Fatty deposits
- Cellulite



pH 6.5-7.5

N/A

composition:

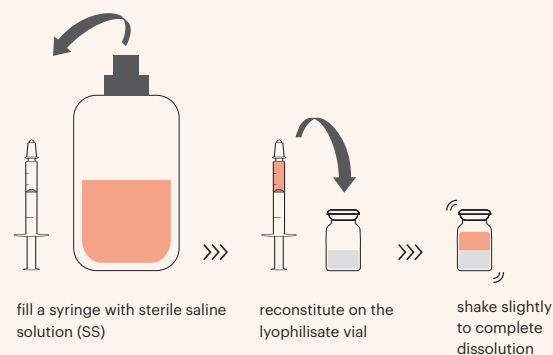
- Hyaluronidase 1500 IU lyophilisate

x.prof 150 reductonidasa Repair and correction

indications:

- Smoothing and firming for skin with an irregular surface
- Anti-aesthetic corrections
- Compact cellulite

reductonidase preparation mode:



10 mL SS	150 IU/mL of hyaluronidase
5 mL SS.....	300 IU/mL of hyaluronidase
3 mL SS	500 IU/mL of hyaluronidase

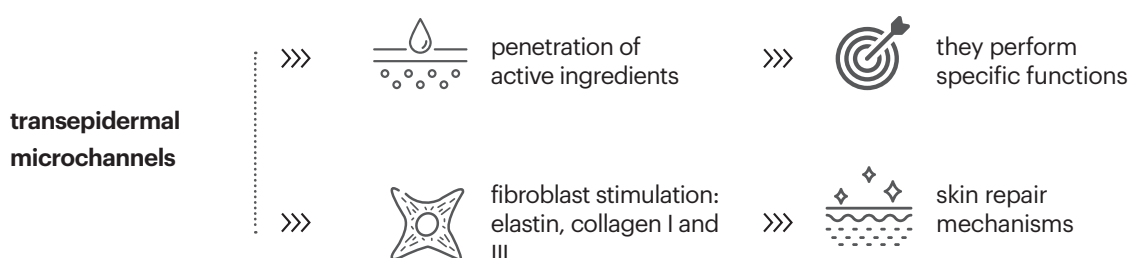
SS: saline or saline solution IU: international units

Combination with multiple technologies



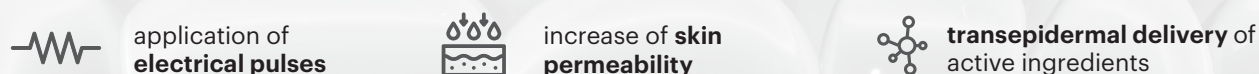
Microneedling is a minimally invasive technique that generates transepidermal microchannels producing dermoepidermal biostimulation, and increasing the activity of the active ingredients

mechanism of action:



Electrophoroporation is a delivery system that combines the benefits of iontophoresis and electroporation, allowing the release and delivery of active ingredients in the innermost skin layers.

mechanism of action:



meso.prof: suggested combined protocols

protocols	indications	technique	recommended protocol	sessions
facial protocols	flash	   	x.prof 109 bioflash NCTC-109  + x.prof 108 hyaluronic acid  + x.prof 020 20% vitamin C ampoules 	1
	intensive lighting	   	x.prof 020 20% vitamin C ampoules  + x.prof 151 glutathione 	6
	mild aging	   	x.prof 108 hyaluronic acid  + x.prof 014 1% organic silicon ampoules  + x.prof 020 20% vitamin C ampoules 	6
	moderate aging	   	x.prof 108 hyaluronic acid  + x.prof 014 1% organic silicon ampoules  + x.prof 021 3% DMAE ampoules 	6
	severe aging	   	x.prof 108 hyaluronic acid  + x.prof 040 centella asiatica ampoules  + x.prof 109 bioflash NCTC-109 	6
	lip moisturising	   	x.prof 108 hyaluronic acid  + x.prof 014 1% organic silicon ampoules  + x.prof 110 X-DNA gel 	6
	neck: wrinkles	   	x.prof 040 centella asiatica ampoules  + x.prof 108 hyaluronic acid  + x.prof 110 X-DNA gel 	6
	neck: flaccidity	   	x.prof 021 3% DMAE ampoules  + x.prof 108 hyaluronic acid  + x.prof 110 X-DNA gel 	6



microneedling



electrophoroporation



microcurrents



radiofrequency

meso.prof: suggested combined protocols

specific facial indications

oily skin	• Oily acne-prone skin	 	x.prof 020 20% vitamin C ampoules brightening + x.prof 014 1% organic silicon ampoules firming	6
post-acne scars	• Scars caused by acne	  	x.prof 040 centella asiatica ampoules repairer + x.prof 014 1% organic silicon ampoules firming + x.prof 110 X-DNA gel regenerator	6
sensitive skin	• Couperose • Diffuse redness • Skin with vascular disorders	 	x.prof 015 melilot extract venotonic + x.prof 040 centella asiatica ampoules repairing action + x.prof 011 caffeine stimulating	6

body protocols

lipolytic: localised fat	• Hard cellulite, orange skin • Skin with hard-consistency adiposity	    	phase 1	x.prof 011 caffeine 	+	x.prof 012 L-carnitine 	+	x.prof 014 1% organic silicon ampoules 	5	10
			phase 2	x.prof 015 melilot extract 	+	x.prof 014 1% organic silicon ampoules 	+	x.prof 010 artichoke extract 	5	
firming	• Soft cellulite • Flaccidity, loss of tone	    	phase 1	x.prof 015 melilot extract 	+	x.prof 010 artichoke extract 	+	x.prof 011 caffeine 	5	10
			phase 2	x.prof 015 melilot extract 	+	x.prof 021 3% DMAE ampoules 	+	x.prof 014 1% organic silicon ampoules 	5	
drainer	• Oedematous cellulite • Fluid retention and/or circulatory disorders	  	phase 1	x.prof 015 melilot extract 	+	x.prof 011 caffeine 	+	x.prof 012 L-carnitine 	5	10
			phase 2	x.prof 015 melilot extract 	+	x.prof 010 artichoke extract 	+	x.prof 021 3% DMAE ampoules 	5	
stretch marks	• Cell repair and restructuring of the dermis's protein network • Loss of skin elasticity and firmness	    		x.prof 040 centella asiatica ampoules 	+	x.prof 014 1% organic silicon ampoules 	+	x.prof 110 X-DNA gel 	5	



thermotherapy



electrostimulation



mechanical and manual



ultrasound, cavitation and shock waves

meso.prof: clinical evidence

Eye contour with under-eye bags and circles ⁽⁵⁾

genesis intensive stimulation + nutrition:

G+ plus + **c.prof 220 draining solution** + **c.prof 214 mesopeptide solution**



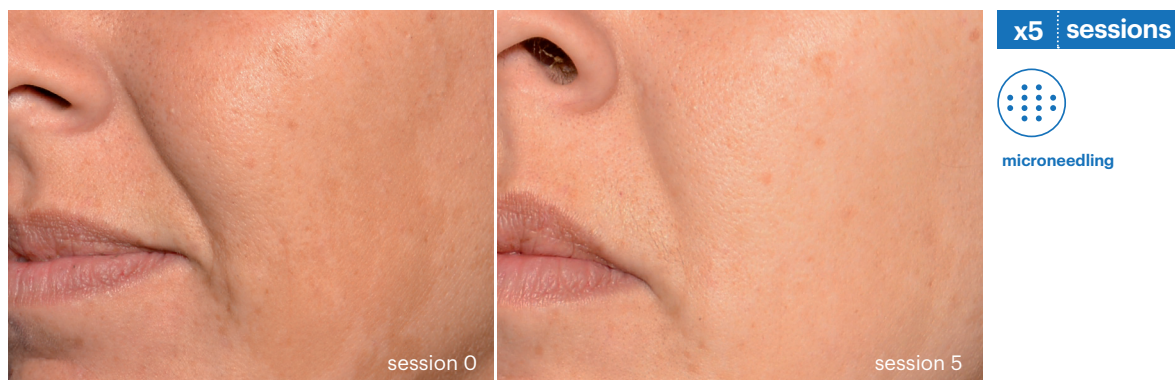
Photoaging ⁽⁶⁾

m.pen ^[pro] + **c.prof 211 photoaging solution**



Hyperpigmentation ⁽⁷⁾

m.pen ^[pro] + **c.prof 210 depigmentation solution**



Dynamic wrinkles ⁽⁸⁾

m.pen ^[pro] + c.prof 213 mesotox solution



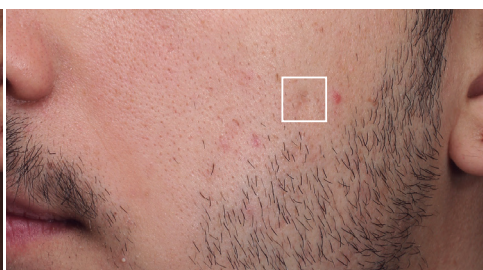
x5 sessions



microneedling

Post-acne scars ⁽⁹⁾

m.pen ^[pro] + c.prof 223 skinmark solution



x6 sessions



microneedling



Couperose ⁽¹⁰⁾

genesis intensive stimulation + nutrition

G+ plus + x. prof 015 melilot + x.prof 011 caffeine + x.prof 040 centella asiatica



x6 sessions

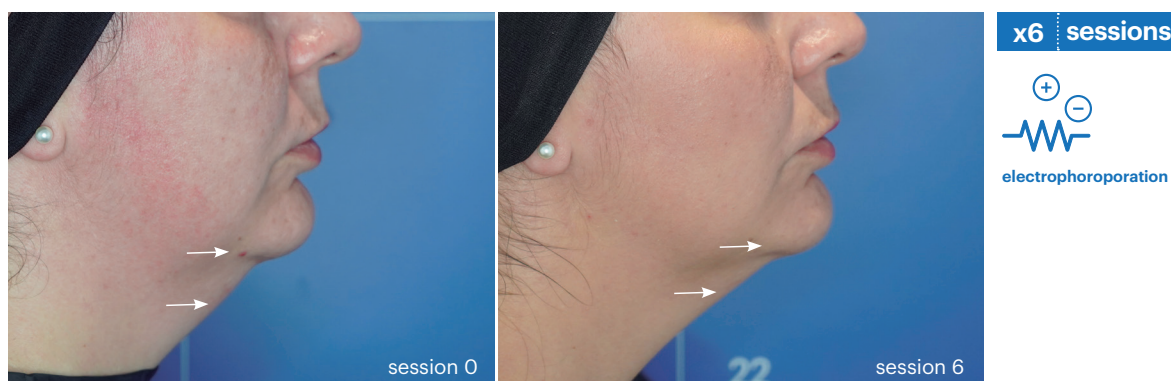


electrophoresis

meso.prof: clinical evidence

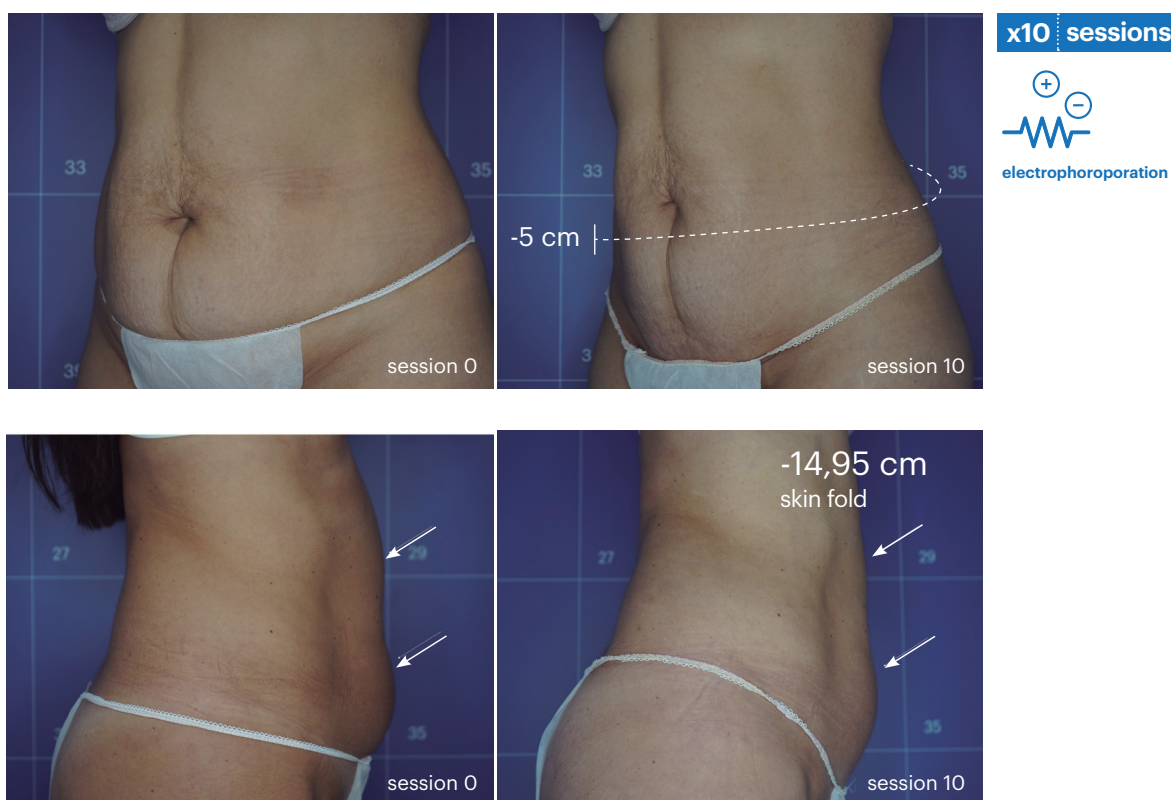
Double chin (localised fat) ⁽¹¹⁾

genesis intensive stimulation + nutrition: G+ plus + **c.prof 221 lipolytic**



Fat located in the abdominal area ⁽¹²⁾

genesis intensive stimulation + nutrition: G+ plus + **c.prof 221 lipolytic**



Improvement percentages: ⁽¹²⁾

≈ **-2.03%**
weight

≈ **-3.42%**
body fat

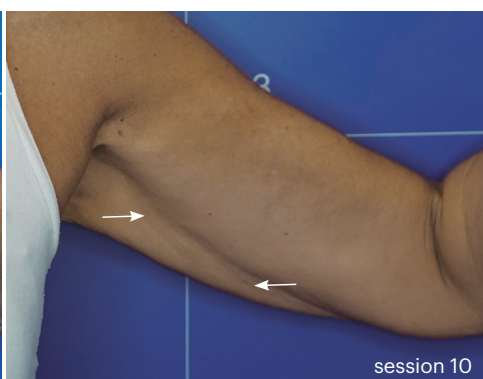
≈ **-8.33%**
visceral fat

≈ **-1.98%**
BMI

≈ **-1.49%**
metabolic age

Flaccidity⁽¹³⁾

genesis intensive stimulation + nutrition: G+plus + **c.prof 222 firming**



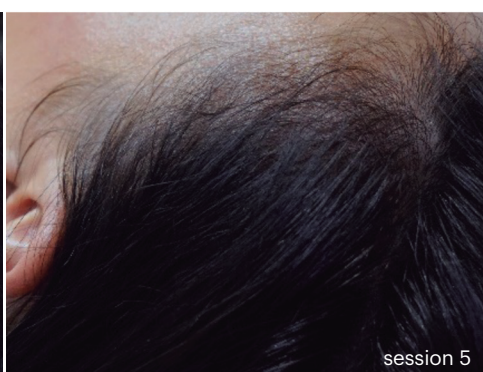
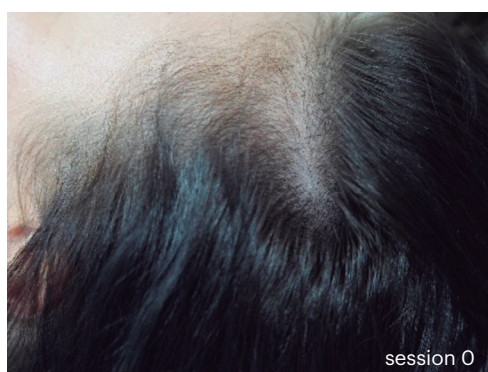
x10 sessions



electrophoresis

Hair loss⁽¹⁴⁾

m.pen^[pro] + **c.prof 230 hair loss solution**



x5 sessions



microneedling



Complementary home products

antiaging · age element®

Solutions based on the epigenetics science that manage to reverse the effects of skin aging catalysts to counteract the signs of skin aging.



ANTIAGING BRIGHTENING SOLUTIONS

Antioxidant protocol for a more radiant skin.



ANTIAGING FIRMING SOLUTIONS

Restructuring protocol for a firmer and smoother skin.



ANTIAGING ANTI-WRINKLES SOLUTIONS

Regenerative protocol for smoother and retexturised skin.

depigmentation · pigment control solutions



melan tran3x concentrate melan tran3x gel cream

Depigmentation programme whose formulas act on hyperpigmentation on a daily and progressive basis, attenuating dark spots. With tranexamic acid.

hair care · hair care solutions



tricolony lotion tricolony caps tricolony shampoo

Intensive anti-hair loss programme with revitalising action on the scalp.

actives professional solutions

Solutions and specific active ingredients in autoclaved ampoules and vials for incorporation into transepidermal penetration devices and systems.

2 product lines: **c.prof:** combinations of active ingredients to treat specific cosmetic concerns. **x.prof:** active ingredients to design 100% customised treatments.

Highly **versatile, safe** products, that ensure a high therapeutic response with a high efficacy level.

Synergy with devices and **transepidermal penetration systems** (microneedling, electroporation, iontophoresis, ultrasound, cavitation, IR therapy, etc.).



1. Gorouhi F, Maibach HI. Role of topical peptides in preventing or treating aged skin. Int J Cosmet Sci. 2009;31(5):327-45. 2. Xing X, Xu Z, Chen L, Jin S, Zhang C, Xiang L. Tranexamic acid inhibits melanogenesis partially via stimulation of TGF-1 expression in human epidermal keratinocytes. Exp Dermatol. 2022 Apr;31(4):633-640. doi: 10.1111/exd.14509. Epub 2021 Dec 17. PMID: 34862827. 3. Study on the antioxidant capacity of Vitamin C. Biotechnology Unit. mesoestetic Pharma Group, S.L. 2017. 4. Study on the lipolytic capacity of carnitine. Biotechnology Unit. mesoestetic Pharma Group, S.L. 2017. 5. Eye contour with under-eye bags and circles. Medical unit. mesoestetic Pharma Group, S.L. 2017. 6. Photoaging. Medical unit. mesoestetic Pharma Group, S.L. 2017. 7. Hyperpigmentation. Medical unit. mesoestetic Pharma Group, S.L. 2017. 8. Dynamic wrinkles. Medical unit. mesoestetic Pharma Group, S.L. 2017. 9. Study on the treatment of post-acne scars. Medical unit. mesoestetic Pharma Group, S.L. 2017. 10. Study on couperose. Medical unit. mesoestetic Pharma Group S.L. 2023. 11. Type I double chin (localised fat). Medical unit. mesoestetic Pharma Group S.L. 2023. 12. Study on the treatment of localised abdominal fat. Biotechnology Unit. mesoestetic Pharma Group S.L. 2023. 13. Study on the improvement of arm firmness. Medical unit. mesoestetic Pharma Group S.L. 2022. 14. Study on hair loss treatment. Medical unit. mesoestetic Pharma Group S.L. 2022.



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