Anti-Ageing mesotherapy
SKIN REJUVENATION & WRINKLES TREATMENT

THE FIRST READY TO USE ANTI-AGEING MESOTHERAPY KITS
NCTF® IS AN ANTI-AGEING MESOTHERAPY PRODUCT RANGE COMPOSED OF 54+1 ACTIVE INGREDIENTS THAT ENABLE POLY REVITALIZATION AND DEEP HYDRATION OF SKINS LACKING BRIGHTNESS, TONUS, ELASTICITY OR FIRMNESS.
2 PRODUCTS,
2 indications, 2 levels of performance

THE CHOICE BETWEEN NCTF® 135 AND NCTF® 135HA DEPENDS ON THE PATIENT’S INDICATION AND THE RESULT EXPECTED.
The use of NCTF 135 or HA can be ‘adjusted’ during treatment.

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INDICATIONS

NCTF® 135
Anti-ageing mesotherapy product indicated for revitalization, hydration of tired or dull skin and treatment of superficial wrinkles.

NCTF® 135HA
Anti-ageing mesotherapy product indicated for intense revitalization and hydration of tired or loose skin, treatment of wrinkles and redensification of mature or slack skin.
its success resides in its composition

**HYALURONIC ACID**
Hydroscopic action by fixation of a large quantity of water through the creation of hydrogen and water bonds + action on cellular proliferation and angiogenesis. Hyaluronic acid is an indispensable element for the visco-elastic balance of the dermis and epidermis.

13 **VITAMINS**
- Vitamin A: action on skin’s density and suppleness by regulating keratinizing and healing processes.
- Vitamin B: action on the metabolism of essential fatty acids guaranteeing skin’s biological balance.
- Vitamin C: action on collagen synthesis, inhibition of free radicals and localised hyper production of melanin.
- Vitamin E: anti-radical action by hydrogen peroxide inhibition.

23 **AMINO ACIDS**
Action on proteinic synthesis by fibroblasts. Cells combine these structural elements to create proteins also known as polypeptides.
- COLLAGEN is mainly composed of proline + hydroxyproline + lysine
- ELASTIN is mainly composed of aspartic acid + threonine + serine.

6 **MINERALS**
Ion action on hundreds of enzymatic reactions and essential cellular functions. As cofactors minerals thus improve the different biological metabolisms. Magnesium Mg + is for example involved in 180 enzymatic reactions.

6 **COENZYMES**
Catalytic action on the organism’s metabolic reaction speed by reducing the energy required for the reactions to take place. These biochemical activators thus increase tissue construction speed.

5 **NUCLEIC ACIDS**
Nucleic acids are compounds created by the bonding of unitary elements called nucleotides that create essential molecules such as DNA and RNA which carry the information enabling to command and regulate the synthesis of proteins.

2 **REDUCING AGENTS**
They are substances that easily lose one or more electrons. They therefore stop radical oxidation reactions of the dermis and epidermis cells.

54 + 1 **Active ingredients**
- Hyaluronic Acid
- Non reticulated Sodium Hyaluronate
- 13 Vitamins: Ascorbic Acid (Vit. C) • P-aminobenzoic Acid (Vit. B12) • Biotin (Vit. B8) • calcium pantothenate (Vit. B5) • Folic Acid (Vit. B9) • Inositol (Vit. I) • Nicotinamide (Vit. B3) • Pyridoxine (Vit. B6) • Riboflavin (Vit. B2) • Thiamine (Vit. B1) • Tocopherol (Vit. E) • Retinol (Vit. A) • Riboflavin (Vit. B12) • 6 Minerals: Calcium Chloride • Potassium Chloride • Magnesium Sulfate • Sodium Acetate • Sodium Chloride • Sodium Dihydrogenophosphate • 5 Nucleic Acids: Deoxyadenosine • Deoxythymidine • Deoxyguanosine • Deoxyuridine • Methylcytosine
- 23 Amino Acids: Alanine • Arginine • Asparagine • Aspartic Acid • Aspartate • Cystine • Glutamine • Glutamic Acid • Glycine • Histidine • Hydroxyproline • Isoleucine • Leucine • Lysine • Methionine • Ornithine • Phenylalanine • Proline • Serine • Threonine • Tryptophan • Tyrosine • Valine
- 6 Coenzymes: FAD (Flavin adenine dinucleotide) • NAD (Nicotinamide adenine dinucleotide) • NADP (Nicotinamide adenine dinucleotide phosphate) • UTP (Uridine triphosphate)
- 2 Reducing Agents: Ascorbic Acid • Glutathione
**INTRADERMAL INJECTION TECHNIQUES**

**Serial puncture**

30G SYRINGE + NEEDLE
- Along wrinkles and lines
- Intradermal micro-injections (0.01ml)
- "Little product needed. Targets precise areas"
- Superficial, in regular intervals
- Small papules, a few mm apart.

**Nappage**

USING A SYRINGE OR A MESOTHERAPY GUN
- Over the whole of the face, neck, scoop neck and back of the hands
- Very superficial cutaneous micro-injections
- Small papules, barely visible, roughly 1 cm apart.
PROTOCOL

MESOTHERAPY IS A BIOLOGICAL AND PROGRESSIVE TREATMENT THAT REQUIRES A MINIMUM OF 6 SESSIONS [3 MONTHS] FOR A SKIN VISIBLY REJUVENATED.

INITIALIZE
4 sessions with one week to 15 days intervals.

REPAIR
2 sessions with one month interval.

MAINTAIN
1 session every 2 to 6 months

Determine suitable treatment intervals according to the indications of each patient. Revitalizing mature skins requires a more recurrent treatment rhythm than younger skins: our in vitro study of fibroblasts proliferation when in presence of NCTF® 135 reveals that senescent fibroblasts require more product than young fibroblasts.
GLOBAL treatment targeting cutaneous ageing causes and consequences (wrinkles, firmness, complexion).

Practically pain free ambulatory treatment.
Natural and progressive results, visible but no excessive correction.
Regular assessment and continuous therapeutic support of the patient.
Combination with the classic anti-ageing treatment (filler, toxin, peeling, laser).

A GLOBAL THERAPY

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Successful formula of 54 + 1 ingredients:
resulting from 30 years of research and expertise.

**Micro-filtration sterilization:**
protect the biological integrity of the 54+1 ingredients

**CE marked product:**
security level required by practitioner and patient
Filorga Production Unit certified ISO 13485: 2003

**Internationally Renowned:**
already more than 900 000 patients treated in 34 countries.

**Extremely purified hyaluronic acid:**
no pre-test is necessary

**Low viscosity solution enabling perfect integration into the tissues:**
overall superficial treatment of the tissues

**Proven anti-ageing efficiency:**
treatment of wrinkles, matrix redensification, anti radical protection:
new biological in vitro efficiency tests

NCTF® kits

**UNIQUE: THE FIRST ANTI-AGEING MESOTHERAPY KITS**

Complete Anti-ageing Mesotherapy kit for 5 treatments:
- 3ml vials, disposable, ready to use
- 18G Sampling needles
- 30G treatment needles
- 1ml syringes

**Efficient and Risk Free**

**New formulas**

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8 PROVEN ANTI-AGEING

1. Wrinkle treatment

54+1 ingredients

Active repair of cutaneous damages

**PROPERTIES**

The synergy of NCTF® ingredients with hyaluronic acid improves healing/cicatrisation of cutaneous damages thanks to the viscostatic properties of the acid.

**BIBLIOGRAPHY**

CHUNG JH, FAGERHOLM P, UNDTSROM B.


**RESULT**

“NCTF® acts in addition to reticulated hyaluronic acid or botulic toxin based treatments by attracting fibroblasts near injection point in order to repair micro-lesions created by cutaneous depressions.

2. Hydration

active and exogenous

**Hyaluronic Acid**

Reduce Insensitive Water Loss (PIe)

**PROPERTIES**

Exogenous hyaluronic acid has a significant hydroscopic potential. It fills in equal measures the space between the collagen fibres of the cellular matrix thus reducing water loss.

**BIBLIOGRAPHY**

COMPER WC., LAURENT TC.

Physiological function of connective tissue polysaccharides. Physiol Rev. 1978; 8: 255-315.

**RESULT**

“Hyaluronic acid enables the creation of sufficient water supply which in turn mobilises to ensure optimal hydration of the dermis and epidermis.”

3. Brightness/

Radiance optimisation

**Hyaluronic Acid**

Encourages angiogenesis

**PROPERTIES**

Hyaluronic acid oligosaccharides contribute to the formation of neo blood-vessels in vivo. Revascularisation of skin autotransplant in rats is improved after application of 100mg of hyaluronic acid.

**BIBLIOGRAPHY**

LEES VC, FANT P, WEST DC.

Angiogenesis is accelerated by oligosaccharides of hyaluronan Lab invest 1995; 2, 259-266.

**RESULT**

“a well vascularised skin is an oxygenised skin that is healthier and brighter.”

4. Ionic Balancing

Ca+, K+, Mg+, Na+

**PROPERTIES**

In their ionic state, minerals are involved in enzymatic sequencing reactions. Thus Magnesium Mg+ is involved in 180 enzymatic systems.

**BIBLIOGRAPHY**

GeesIn, J.C., GORDON, J.S. & BERG, R.A.


**RESULT**

“By overcoming mineral deficiency affecting enzymatic systems, NCTF® takes action on balance and protein synthesis of the dermis.”
### GLOBAL ACTIONS

*Results produced through a series of in-vitro studies conducted by a French independent research centre specialized in cellular and molecular pharmacology.*

#### 5* Stimulation of cellular growth

**OBJECTIVE**
Evaluate the effects of NCTF® [complex] on the proliferation of young and senescent fibroblasts.

**METHOD**
Screening Method (incorporation of 3H-thymidine – radioactive marker – in the DNA of macromolecules). 96 sample wells 2000 young fibroblasts per well 72h in contact.

**RESULT**
NCTF® stimulates significantly the incorporation of thymidine (147% of controls/samples p<0.01). NCTF® stimulates proliferation of young and senescent human fibroblasts thus stimulating cellular renewal.

#### 6* Active redensification of the dermis

**OBJECTIVE**
Evaluate the effects of NCTF® [complex] on the synthesis of the main components of extracellular matrix.

**METHOD**
Screening Method (incorporation of 3H-proline – radioactive marker – in the proteins of the matrix). 96 sample wells 8500 aged fibroblasts per well 72h in contact.

**RESULT**
NCTF® stimulates significantly the incorporation of proline in the proteins of the extracellular compartment (256% of untreated controls/samples, p<0.01). NCTF® stimulates the synthesis of proteins rich in proline [collagen I as a majority]

#### 7* Cellular protection

**OBJECTIVE**
Evaluate the effect of this complex on the level of hydrogen peroxide and lipidic peroxidation in human cells (Jurkat) that have been exposed or not to IVA+B radiation.

**METHOD**
Flow cytometry method. 96 sample wells 10000 Jurkat cells per well 24h after radiation at 240 J/cm² lipid peroxides level measure.

**RESULT**
NCTF® shows a significant antiradical activity. By limiting the production of hydrogen peroxide as well as the production of lipidic peroxides following a UVA+B radiation, NCTF® contributes to cellular protection against oxidative stress.

#### 8* Visco-elastic regeneration

**OBJECTIVE**
Study simultaneously the effect of NCTF® over more than a hundred genes involved in growth, differentiation, metabolism, communication and cellular death.

**METHOD**
DNA arrays technology. 96 sample wells 12750 fibroblasts (NHDF) per well 24h and 96h incubation. Differential expression analysis.

**RESULT**
"The study proves that statistically NCTF® has a significant effect on intracellular concentration of RNA elastase-specific inhibitor (ESI). By stimulating the expression of this specific elastase-specific inhibitor gene, NCTF® helps to fight tissue stiffening."
Anti-ageing aesthetic
MESOTHERAPY

Definition

Multiple intradermal injections of very small quantities of a nutritive and revitalising complex of 54+1 active ingredients [using a very thin needle] along wrinkle lines in “nappage” over the face, neck, scoop neck and back of the hands. Anti-ageing mesotherapy can be carried out either manually using a syringe or with a mesotherapy gun.

This intervention/operation may be applied to all skin types for cutaneous ageing treatment or prevention.

Duration of the treatment

A session lasts between fifteen and thirty minutes depending on the cutaneous surface to treat.

Patients’ results

The improvement of cutaneous state is progressive and cumulative. The result is visible from the first session: the skin is more hydrated and toned.

In the medium term skin tone becomes progressively more radiant and even. The skin is restructured, more dense and firmer. The face is visibly rejuvenated.

NCTF® 135 & HA are the only anti-ageing products to treat ageing causes as well as its consequences. The results are therefore even more natural.