



PLURYAL **SILK**A REGENERATIVE BEAUTY INNOVATION

YOUR MOST BEAUTIFUL AGE IS NOW!

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CATEGORIES OF PLURYAL INJECTABLES

FILLERS & DENSIFIERS (Essentials/PN POLYNUCLEOTIDE/BIO/Lidocaine)

FILLERS

DENSIFIERS

Silk Hair Density

Biovolume

Biosculpture Biointimate Volume

Classic Lidocaine Volume Lidocaine Contour Lidocaine

DENSIFIER PN Pluryal

Pluryal Silk Polynucleotide intradermal gel

PLURYAL DENSIFIERS

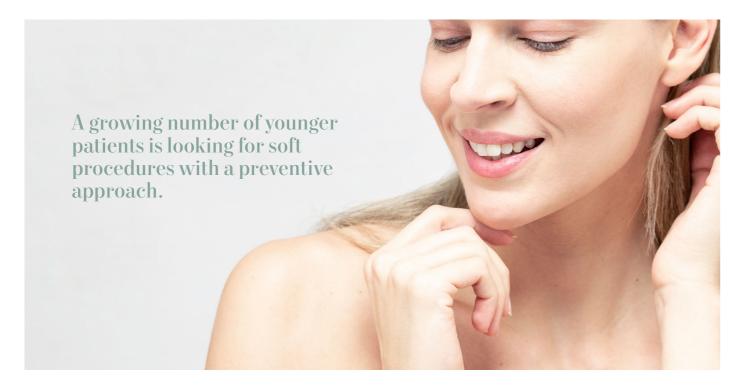
WHY A DENSIFIERS' RANGE?

The demand of patients is moving from "dermal fillers" toward treatments that help achieving a feeling of well-being and self-confidence. These treatments answer the growing demand for:

Well-aging and natural-looking results

Flawless skin and treatment of skin textural problems

Fresh skin and healthy look



FROM "BOOSTER" TO "DENSIFIER"

A skin "booster" is a type of dermal filler used to improve the skin's quality by boosting hydration levels deep within the skin and increasing its smoothness, elasticity and firmness.

A skin "densifier" goes even further as it not only increases the hydration levels deep within the skin but also boosts collagen production and complements the skin's natural ability to self-repair by acting on the fibroblasts and stem cells' activity. It is a skin healer as well as a scalp repairing device.

PLURYAL DENSIFIERS: AN INNOVATION

Pluryal innovates by bringing to the industry the FIRST range of "beauty densifiers" that:

Durably and efficiently repairs the skin and hair.

Is manufactured in Europe in compliance with EU regulations and CE certified products.

Uses innovative, patented and unique technologies based on two main actives: highly purified polynucleotides and hyaluronic acid.

Offers solutions to tackle all skin and hair problems, even in the most delicate areas.

HPN TECHNOLOGY A REGENERATIVE INNOVATION

Pluryal SILK is an injectable medical device based on the HPN technology.

HPN TECHNOLOGY: AN EXCLUSIVE PRODUCTION PROCESS OF PHARMACEUTICAL GRADE

Control of every step in the production process, from raw material to finished product.

Pharmaceutical manufacturing standards.

PDRN of pharmaceutical grade.

High purification of the DNA that guarantees the absence of inflammatory reactions.



POLYNUCLEOTIDES

ABOUT POLYNUCLEOTIDES:

Obtained from the salmon sperm extraction of a fraction of DNA of different chain lengths (molecular weight from 80 to 2,000 K Da) close to the human DNA.

Composed of a mixture of deoxyribonucleotide polymers with chain lengths between 50 and 2,000 base pairs. Source of deoxynucleosides, purines and pyrimidines, and deoxyribonucleotides.

Purified at high temperature and sterilized.

Non-allergenic and fully absorbable.

No interaction with peptides or pharmacologically active proteins.

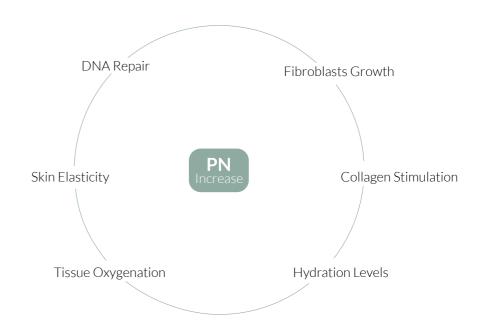
WHAT MAKES THEM UNIQUE?

Compatible, biodegradable and natural polynucleotides are known for their total skin regenerative effect.



POLYNUCLEOTIDES

A REGENERATIVE ACTION



EFFECTS



FAST TISSUE REGENERATION

Activating secretion of a number of growth factors such as FGF and EGF to induce differentiation of various blast cells such as fibroblast, osteoblast and chondrocyte for fast tissue regeneration.



ANTI-INFLAMMATORY

Powerful anti-inflammatory effects by reducing various inflammation causing cytokine while increasing anti-inflammatory cytokine.



NEW BLOOD VESSEL GENERATION

Accelerating secretion of Vascular Endothelial Growth Factor (VEGF) for effective generation of new blood vessels.



SCAR REDUCTION

Minimizing scars resulting from the healing process of damaged tissue by keeping extracellular fluid intact through inducing balanced secretion between collagenous and non-collagenous protein.

AS SOFT AS SILK

Delicate Product, Bold Advantages

Stimulates and repairs the skin Is adapted for the most delicate areas (face and body) Highly pure and safe Fast treatment with minimal downtime Offers natural results

Pluryal Silk
Polynucleotide intradermal gel
2ml

DENSIFIER PN





PLURYAL SILK REPAIRS DELICATE AREAS

PLURYAL SILK is a viscoelastic, non-pyrogenic sterile polynucleotide gel for single use, for intradermal infiltration.

Polynucleotides Concentration: 15mg/syringe (7.5mg/ml)

Sterilization: Steam

Main Action: Repairs delicate areas

Target Patients:

Repair of the face and body areas where the skin is thin, delicate, and fragile, and which are often overlooked by

standard treatments, although they are more exposed and visible.

Stretch marks.

Preparation for other aesthetic treatments in order to prolong their effects.

Target Age Group: Starting the age of 25

Injection Level: Deep dermis / Mid dermis (around lips and eyes)

Administration: 1 x 2ml syringe | 2 x 30G ½ needles

Regulatory: Syringe (CE 0373, MD Skin Solutions) | Needles (CE 0050, BD)

TREATMENT FREQUENCY



YOUNG SKINS

Initial Treatment



AGED SKINS

Initial Treatment

TREATMENT PROTOCOLS BY AREA



EYE CONTOUR & UPPER EYELIDS

Initial Treatment

Maintenance Treatment



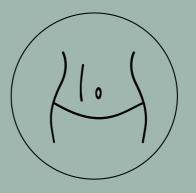
AREA AROUND THE **MOUTH***

Initial Treatment



FACE, NECK & DÉCOLLETAGE

Initial Treatment



ABDOMEN (STRETCH MARKS)

Before EBD** procedure

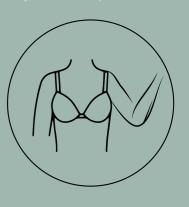
After EBD** procedure



ACNE SCARS

Before EBD** procedure or Peeling

After EBD** procedure or Peeling



CHEST & INNER ARMS

Initial Treatment

Maintenance Treatment

WHO IS A CANDIDATE FOR PLURYAL SILK?

Pluryal Silk is designed to treat specific face and body areas, in particular the neck, the under eye or the back of the hands.

Everyone can benefit from this treatment, but mainly patients who are:

Young and worried about preventing the signs of aging.

Asking for flawless skin.

Looking for natural results.

Searching for treatment options different from fillers and botulinum.

Living in big polluted cities.



TARGET AREAS WITH PLURYAL SILK

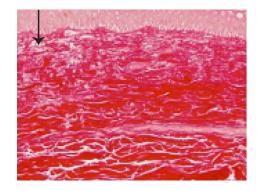
Eye contour | Area around the mouth | Face | Neck | Décolletage | Chest | Inner arms | Acne Scars in complementary of EBD procedure or peeling | Abdomen (postpartum stretch marks on the abdomen in complementary of EBD procedure)

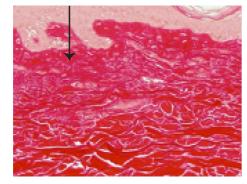
CLINICAL PROVEN EFFICACY

In an ex-vivo trial conducted by an independent French laboratory, Pluryal SILK has been proven to **significantly** increase the density of collagen in the dermis by 7%.

ACTIVITY IN TERMS OF COLLAGEN

(assessment of total collagen content in the dermis after staining with Sirius red)



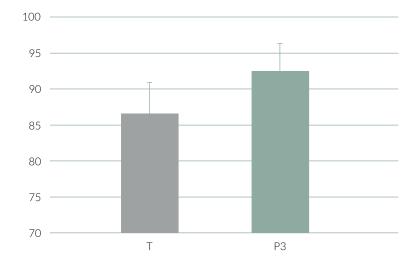


Control on day 9

PLURYAL® SILK (P3) on day 9
Increase in collagens in the papillary and upper reticular dermis

PLURYAL® SILK (P3) induces a significant increase of 7%. (p<0.01 or significant at 99%) Given that the high quantity of total collagens in the dermis, the increases of total collagens usually range from 5 to 8%. A significant increase of 7% is a very good result for this parameter.

PERCENTAGE OF THE SURFACE OCCUPIED BY TOTAL COLLAGENS IN THE DERMIS



Total collagens in the dermis (% surface)

TD9 P3D9

Average

Standard Deviation

87.0

3.8

92.7

2.7

Pluryal SILK is a class III medical device which must only be used by doctors who have received specific training on the intradermal injection techniques. Read the instructions before use.

Inform the patients about possible side effects.

Sources

- ¹ Veronesi et al. Polydeoxyribonucleotides (PDRNs) From Skin to Musculoskeletal Tissue Regeneration via Adenosine A₂₀ Receptor Involvement. J. Cell. Physiol. 232: 2299–2307, 2017.
- ² Sini et al. Effect of Polydeoxyribonucleotides on Human Fibroblasts in Primary Culture. *Cell Biochem. Funct.* 17, 107-14 (1999).
- ^{3.} Park et al. Long-chain polynucleotide filler for skin rejuvenation: efficacy and complications in five patients. *Dermatologic Ther.*, Jan-Feb 2016; 29(1):37-40.
- ^{4.} Thellung et al. Polydeoxyribonucleotides enhance the proliferation of human skin fibroblasts: involvement of a purinergic receptor subtypes. *Life Sci.* 1999;64(18):1661-64.
- ⁵. Polito et al. Polydeoxyribonucleotide restores blood flow in an experimental model of ischemic skin flaps. *J Vasc Surg* 2012 Feb;55(2):479-88.
- ⁶ Evaluation de l'action de différents produits injectables (Pluryal Densify, Pluryal Biosculpture, Pluryal Silk) à partir d'explants de peau humaine ex vivo», Study 19E4548, conducted by the BIO-EC laboratory.



