



GLOWING YOUNGER

THE **ORIGINAL**
POLYNUCLEOTIDES (PN-HPT™)
FROM ITALY

PLINEST® | **NEWEST**®

PLINEST® | NEWEST®

THE ORIGINAL POLYNUCLEOTIDES (PN-HPT™)
FROM ITALY

MASTELLI
AESTHETIC
SINCE 1952

1

The ORIGINAL PN-HPT™
from ITALY

70

Years
of Research

100+

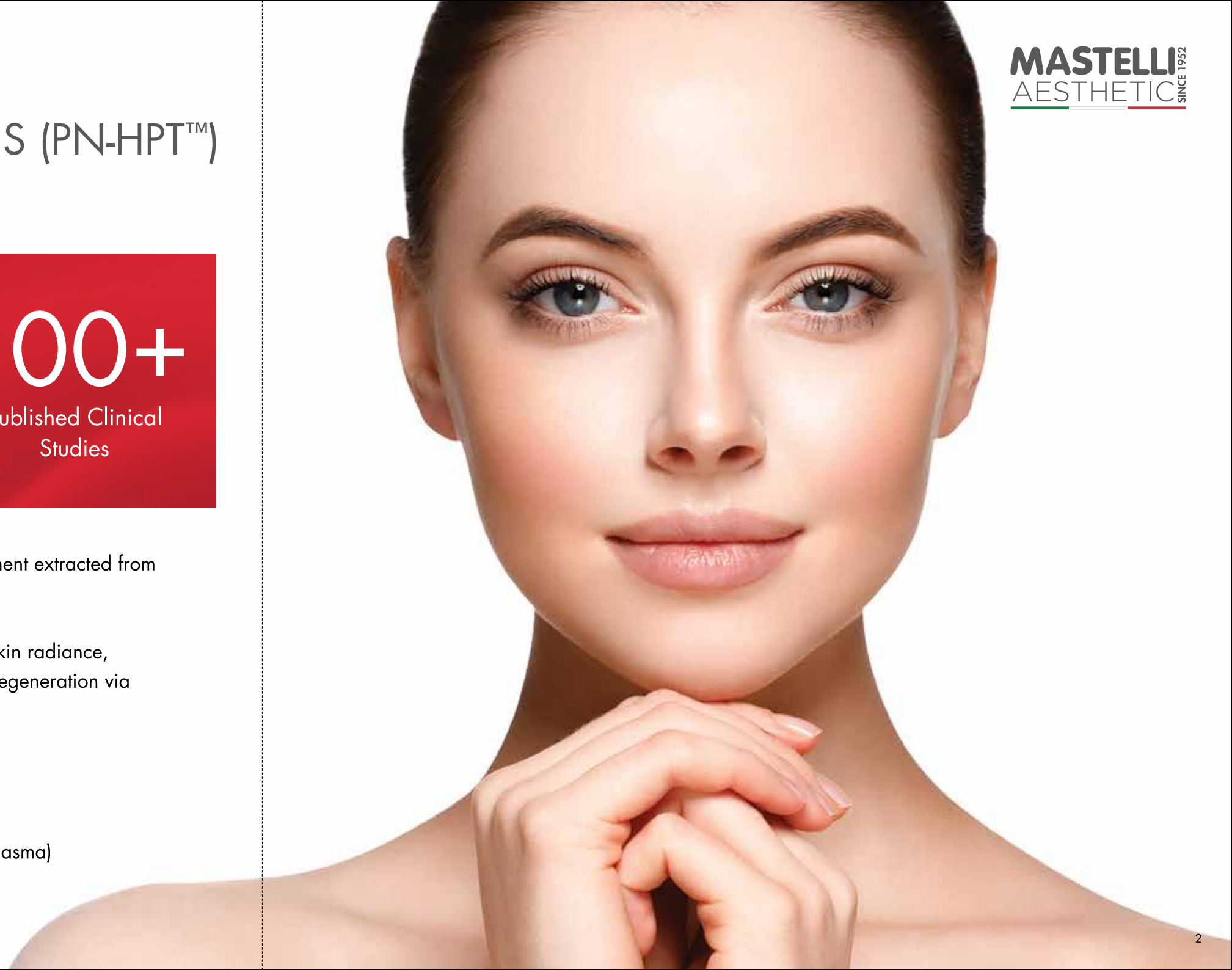
Published Clinical
Studies

PLINEST | NEWEST, the ORIGINAL Polynucleotides (PN-HPT™), a DNA fragment extracted from ethically bred Italian trout.

PLINEST | NEWEST improves OVERALL SKIN HEALTH from within, restoring skin radiance, youthfulness, and elasticity by promoting skin bio-revitalization and collagen regeneration via a natural physiological process.

PLINEST and NEWEST are suitable for:

- Aging skin
- Wrinkles and fine lines
- Large pores
- Acne scars
- Hyperpigmentation (Melasma)



THE ORIGINAL POLYNUCLEOTIDES

(PN-HPT™) FROM ITALY

Mastelli is the creator and innovator of Polynucleotides (PN) and Polydeoxyribonucleotides (PDRN) products sold under the brand names **PLINEST**, **NEWEST** and **Placentex**, being available commercially in Europe since 2005.

The Mastelli story began from 1952 in Sanremo, Italy thanks to its founder, Mr. Arnolfo Mastelli.

Today, Mastelli is a world leader in the R&D, manufacturing, and distribution of DNA-based regenerative treatment, managed skillfully by the third generation of the Mastelli family.

Where innovation is a Tradition

MASTELLI
AESTHETIC SINCE 1952



70 YEARS OF RESEARCH IN PN-HPT™ (POLYNUCLEOTIDES - HIGHLY PURIFIED TECHNOLOGY™)

PLINEST & NEWEST are formulated with HPT™, a patented DNA extraction and purification technology developed by Mastelli, Italy.

The entire manufacturing process - from the selection of the best fish to the finished product - is closely monitored and controlled by Mastelli in Italy.

With 70 years' worth of research, Mastelli's HPT™ assures only the highest purification levels from the PN extraction process, resulting in superior efficacy while still maintaining safety compliance at the highest pharmaceutical standards.

Not all PN are the same, only PN developed by Mastelli certified as PN-HPT™.



Trout Farm



Trout Selection



Trout Gonad Extraction



Sterilization



Production



Highly Purified PN



Quality Control



PLINEST | NEWEST

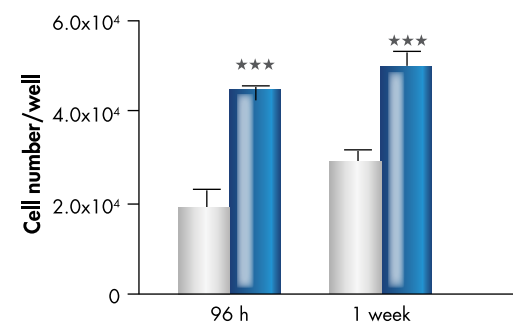
PLINEST® & NEWEST® ARE ENTIRELY DEVELOPED AND PRODUCED IN ITALY



Bio-Revitalization

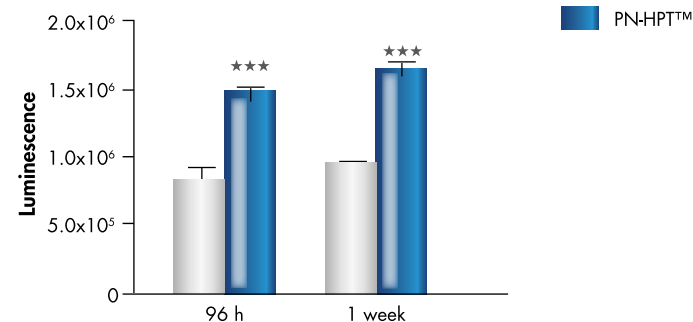
- PN-HPT™ stimulates fibroblast proliferation ¹
- PN-HPT™ revitalizes existing fibroblasts ¹
- PN-HPT™ improves OVERALL SKIN HEALTH by rectifying unwanted signs of aging e.g. wrinkles, large pores and hyperpigmentation

Increased Number of Fibroblast



The number of cells is significantly higher in presence of PN-HPT™ compared with the control at 96 hours and after 1 week

Increased Vitality of Fibroblasts



The levels of vitality are significantly higher in presence of PN-HPT™ compared with the control at 96 hours and after 1 week

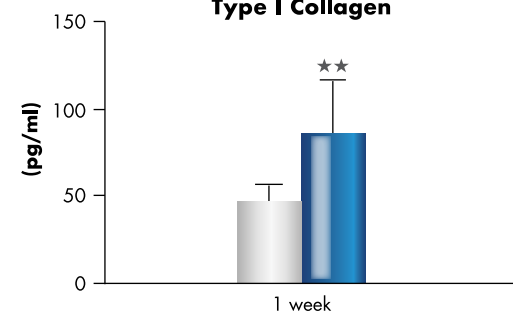
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Collagen Regenerative

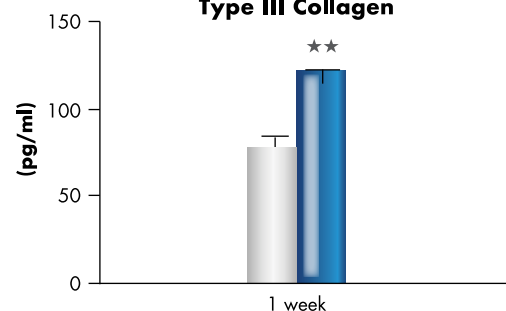
- PN-HPT™ increases synthesis of type I and type III collagen ¹
- PN-HPT™ promotes skin extracellular matrix proliferation to flatten wrinkles and acne scars

Increased Type I and Type III Collagen

Type I Collagen



Type III Collagen



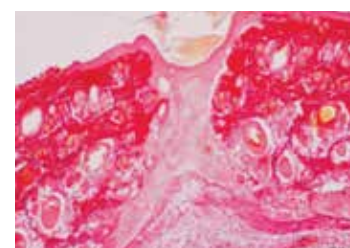
The presence of type I and type III collagen was assessed in the supernatant of cell cultures of fibroblasts. PN-HPT™ stimulate the expression of type I and type III collagen after 1 week

**p<0.01

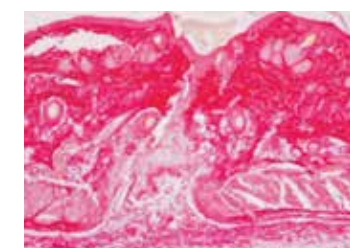
Repair Aging & Damaged Tissue

- In the PN-HPT™ treated group, tissue repair is found to be almost complete, with mature and well organized collagen fibers and consequent uniform deposition of the extracellular matrix ¹
- PN-HPT™ restores youthful glowing skin by repairing aging and damaged skin tissue

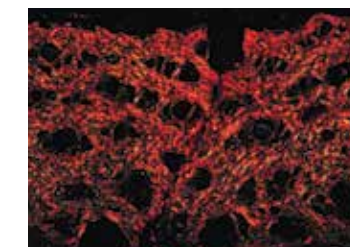
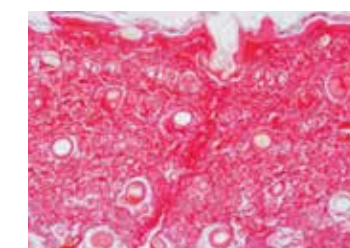
CONTROL



HYALURONIC ACID



POLYNUCLEOTIDES-HPT™



In vivo study: histological evaluation of tissue repair. Detections using Sirius red dye and polarized light. Groups: Control, Polynucleotides-HPT™, Hyaluronic Acid.

Increased Skin Hydration & Elasticity

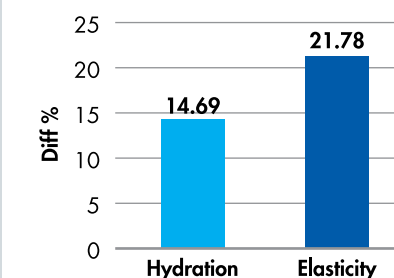
- PN-HPT™ increases skin hydration by 15% and skin elasticity by 22% ^{2,3}
- PN-HPT™ provides a skin-lifting effect, reducing wrinkles and restoring youthful, glowing skin

Skin hydration test

N. patients	14
Sex	F
Pre	62.06
Post	74.00
Difference	11.94
Diff %	14.69

Skin elasticity test

N. patients	14
Sex	F
Pre	17.69
Post	14.81
Difference	2.88
Diff %	21.78





PLINEST® | NEWEST®

THE ORIGINAL POLYNUCLEOTIDES



(PN-HPT™) FROM ITALY

Product / Brand	 PLINEST®	 PLINEST® fast	 PLINEST® ONE	 NEWEST®	 NEWEST® One
Ingredient	Polynucleotides-HPT™ (PN-HPT™) Bio-Revitalization	Polynucleotides-HPT™ (PN-HPT™) Bio-Revitalization	Polynucleotides-HPT™ (PN-HPT™) Bio-Revitalization	Polynucleotides-HPT™ (PN-HPT™) Bio-Revitalization + Hyaluronic Acid (HA) Hydration & Elasticity + Mannitol (MN) Extend HA Action, Prolong Hydration and Elasticity	Polynucleotides-HPT™ (PN-HPT™) Bio-Revitalization + Hyaluronic Acid (HA) Hydration & Elasticity + Mannitol (MN) Extend HA Action, Prolong Hydration and Elasticity
Concentration	40mg/2ml	15mg/2ml	8mg/4ml	20mg/2ml + 20mg/2ml + MN	4mg/4ml + 4mg/4ml + MN
Treatment area	 Face, Neck and Hands	 Face & Delicate Skin Area	 Abdomen, Arm, Thighs and Bottom (Stretch Marks)	 Face, Neck and Hands	 Abdomen, Arm, Thighs and Bottom (Stretch Marks)
Packing	1 x 2ML PFS	1 x 2ML PFS	5 x 4ML Ampoules	1 x 2ML PFS	5 x 4ML Ampoules

GLOWING YOUNGER

THE ORIGINAL POLYNUCLEOTIDES (PN-HPT™) FROM ITALY

Available in Europe since 2005

PLINEST®

FACE

FACE, DECOLLETE, HANDS

- Total Facial Bio-Revitalization to reverse skin aging
- Softens & flattens acne scars, wrinkles and fine lines
- Minimizes skin pore
- Improves skin hydration & elasticity
- Improves skin radiance for a youthful glow

PN-HPT™ 40mg/2ml

Administration Technique: Micro Droplet (Serial Puncture)
Linear Retrograde
Cross Hatching Technique

Treatment Protocol:
Start Up: 1 session every 14 or 21 days for a total of 3 sessions
Maintenance: 1 session every 6 to 9 months



Customised protocol based on patient needs

PLINEST fast

FACE & DELICATE SKIN

PERI-OCULAR, GLABELLA, FOREHEAD, NECK, DECOLLETE, HANDS

- Lighten dark circles
- Revives tired-looking eyes
- Before and after Blepharoplasty
- Reduces superficial wrinkles or fine lines around delicate skin area

PN-HPT™ 15mg/2ml

Administration Technique: Micro Droplet (Serial Puncture)
Linear Retrograde
Cross Hatching Technique

Treatment Protocol:
Start Up: 1 session every 14 or 21 days for a total of 3 sessions
Maintenance: 1 session every 6 to 9 months



Customised protocol based on patient needs

PLINEST ONE

BODY

ARMS, ABDOMEN, THIGHS, BOTTOM

- Reduces the appearance of stretch marks
- Lightens & flattens atrophic scars
- Promotes visible skin firmness and elasticity

PN-HPT™ 8mg/4ml

Administration Technique: Micro Droplet (Serial Puncture)
Linear Retrograde
Cross Hatching Technique
PLINEST ONE can also be administered using non-invasive techniques e.g. iontophoresis, electroporation, hydroelectrophoresis.

Treatment Protocol:
Start Up: 1 session every 7 or 14 days for a total of 4 sessions
Maintenance: 1 session every 21 days for a total of 4 sessions



1 to 4 ampoules per session depending on the area to be treated. Customised protocol based on patient needs

GLOWING YOUNGER WITH IMMEDIATE LIFTING & HYDRATION



EP 2 407 147 B1

THE **ORIGINAL** POLYNUCLEOTIDES (PN-HPT™)
FROM ITALY

Available in Europe since 2013



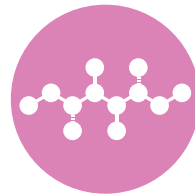
Polynucleotides-HPT™ (PN-HPT™)
Bio-Revitalization

+



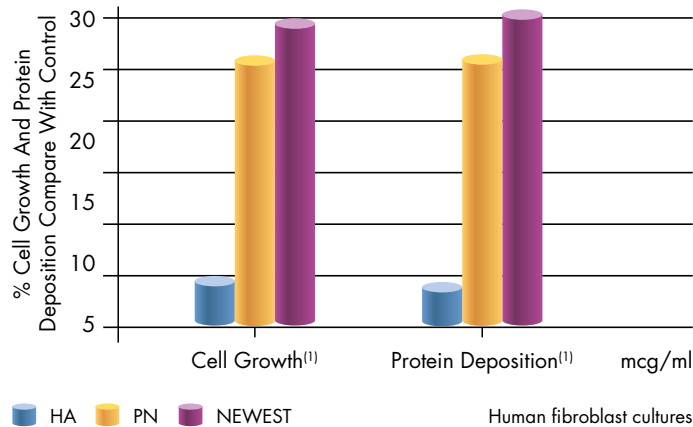
Hyaluronic Acid (HA)
Hydration & Elasticity

+

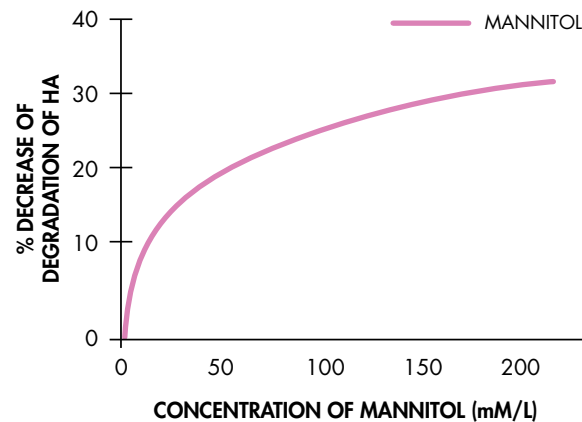


Mannitol (MN)
**Extend HA Action,
Prolong Hydration and Elasticity**

NEWEST increased Human Fibroblast proliferation by 20%^{4, 5}



Mannitol (MN) 200mM/L reduces HA degradation by 30%⁶



FACE, DECOLLETE, HANDS

- Total Facial Bio-Revitalization to reverse skin aging
- Softens & flattens acne scars, wrinkles and fine lines
- Minimizes skin pores
- Improves skin hydration & elasticity
- Improves skin radiance for a youthful glow

PN-HPT™ 20mg/2ml + HA 20mg/2ml + MN

Administration Technique:	Micro Droplet (Serial Puncture) Linear Retrograde Cross Hatching Technique 5 BAP Injection Technique
Treatment Protocol:	Start Up: 1 session every 14 or 21 days for a total of 3 sessions. Maintenance: 1 session every 6 to 9 months



Customised protocol based on patient needs

NEWEST One

ARMS, ABDOMEN, THIGHS, BOTTOM

- Reduces the appearance of stretch marks
- Lightens & flattens atrophic scars
- Promotes visible skin firmness and elasticity

PN-HPT™ 4mg/4ml + HA 4mg/4ml + MN

Administration Technique:	Micro Droplet (Serial Puncture) Linear Retrograde Cross Hatching Technique NEWEST One can also be administered using non-invasive techniques e.g. iontophoresis, electroporation, hydroelectrophoresis.
Treatment Protocol:	Start Up: 1 session every 7 or 14 days for a total of 4 sessions. Maintenance: 1 session every 21 days for a total of 4 sessions.



Customised protocol based on patient needs

GLOWING YOUNGER

THE ORIGINAL POLYNUCLEOTIDES (PN-HPT™) FROM ITALY

PLINEST® | NEWEST®

References: **1.** M T Colangelo, P Govoni, S Belletti, F Squadrito, S Guizzardi, C Galli. Polynucleotide biogel enhances tissue repair, matrix deposition and organization. J Biol Regul Homeost Agents. Jan-Feb 2021; 35(1): 355-362. **2.** M. Cavallini, M. Papagni. Long chain polynucleotides gel and skin biorevitalization. Journal of Plastic Dermatology. Sept 2017; 3(3): 27-32 **3.** Massirone A. Polynucleotides Highly Purified Technology and the face skin, a history of innovative skin priming. Aesthetic Medicine 2021; Volume 7 : N° 1 : 35-40 **4.** Guizzardi S, Uggeri J, Belletti S, Cattarini G. Hyaluronate increases polynucleotides effect on human cultured fibroblasts. Journal of Cosmetics, Dermatological Sciences and Applications. 2013; 3: 124-128 **5.** Guizzardi S, Uggeri J. Polinucleotidi e acido ialuronico associazione originale e sinergia. 14°Congresso Internazionale SIES Febbraio Bologna 2011; 45 **6.** Mendoza G et al. Inhibitory effects of different antioxidants on hyaluronan depolymerization. Carbohydr Res. 2007; 342(1): 96-102.

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