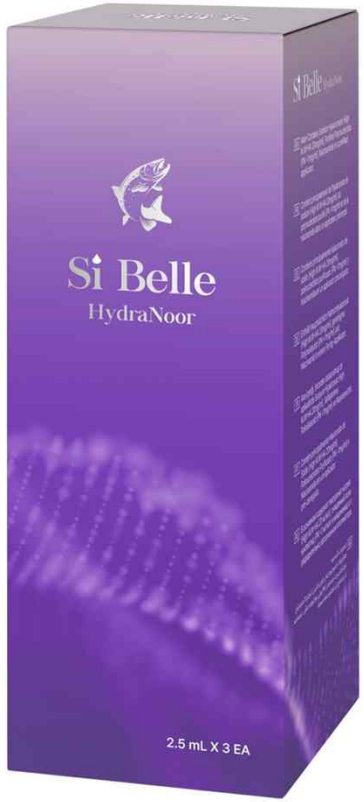
AB Life

Si Belle
HydraNoor

Hyaluronic acid
+ Polynucleotide



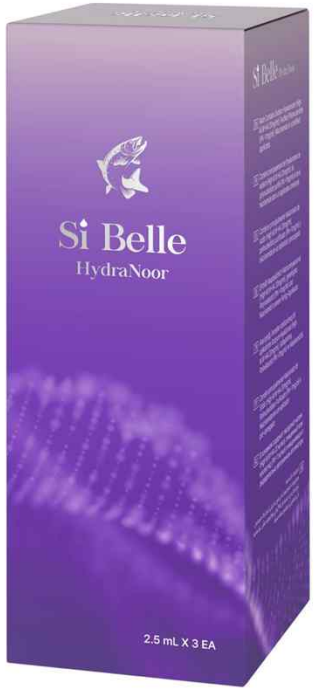
2.5 mL / syringe

3 syringes / box

AB LIFE GLOBAL

AB Life

Product introduction



SPECIFICATION	FORMULE PCT SOURCE
Ingredient	Hyaluronic acid + Polynucleotide
Application	Superficial Dermis
Volume	2.5 mL / syringe
Package Unit	3 syringes / 1 box
Needle	Not included (31G recommended)
Expiration date	24 months

Si Belle HydraNoor

Polynucleotide (PN) Skin Booster

Si Belle HydraNoor

PRODUCT BENEFITS	ADVANTAGE
High regenerative support and easy to use	Enhances skin elasticity and barrier function
Offering a multitude of effects to provide elasticity and whitening to skin	Reduces fine lines and wrinkles
Bio-generating new skin cells for anti-aging	Normalizes skin condition
	Stimulates tissue regeneration and toning effects

AB Life

PN / PDRN

Ingredient background
and published research

ORIGINAL PCT DOSSIER CONTENT

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INDEX

1. What is PN/PDRN?

PN / Difference between PN and PDRN / Example of PN usage

2. Effectiveness of PN/PDRN in clinical trials

Polydeoxyribonucleotide Improves Peripheral Tissue Oxygenation and Accelerates Angiogenesis in Diabetic Foot Ulcers

3. Effects of PN filler compared to existing HA fillers

01 Comparison of the effects of polynucleotide and hyaluronic acid fillers on periocular rejuvenation: a randomized, double-blind, split-face trial

02 Long-chain polynucleotide filler for skin rejuvenation: efficacy and complications in five patients

03 A Phase III, Randomized, Double-Blind, Matched-Pairs, Active-Controlled Clinical Trial and Preclinical Animal Study to Compare the Durability, Efficacy and Safety between Polynucleotide Filler and Hyaluronic Acid Filler in the Correction of Crow's Feet: A New Concept of Regenerative Filler

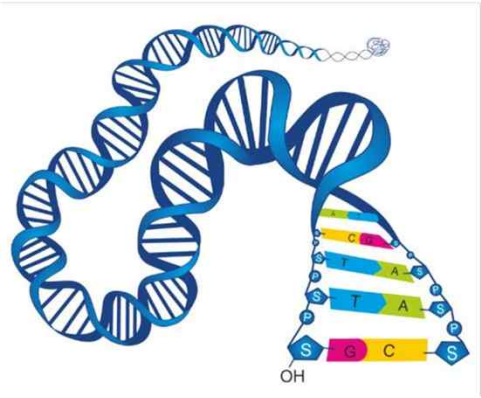
04 Comparative evaluation of the effectiveness of novel hyaluronic acid-polynucleotide complex dermal filler

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PN

PN IS

Biocompatible substances
A specialized regenerative component



EFFICACY OF PN

No foreign body reaction
Has proven stable
Improve the condition inside the skin
Restore the condition inside the skin
Effective in wound healing through the secretion of growth factors

Re-balancing	Firming Improvement	Highly effective in skin regeneration	Verified safety
Restores the balance of oil and moisture to reduce sebum secretion and improve skin texture	helps replenish elastic fibers such as collagen and fibroblasts, which are lacking due to aging	Increase self-sustaining power by activating the unique regeneration ability of the skin	Highly biocompatible, unique material that does not reject skin

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Difference between PN and PDRN

	PN	PDRN
Structure		
Ingredient name	Polynucleotide	Polydeoxyribonucleotide
Source	Ingredients extracted from 'salmon testis'	DNA extracted from 'salmon semen' Reconfigured with elastic fibers and cell-increasing ingredients
Effect	Moisturizing due to hydration effect Role of physical skin support (Long duration)	Provides nucleotide and -side (metabolisem) Stimulate regeneration and metabolic activity of fibroblasts Promotion of cell production and secretion of various growth factors
Use	Bio-materials for tissue repair Support for chondrocyte defects in joints	Regeneration after skin graft Foot ulcer, bedsore, burn, ligament regeneration, corneal regeneration
Difference	Raw materials for medical devices Long DNA polymers (high molecular weight) Long lasting in the skin	Raw materials for pharmaceuticals and cosmetics Short DNA polymers (relatively small molecular weight) Quick absorption into the skin and short remaining period

Effectiveness of PN/PDRN in clinical trials

ORIGINAL SOURCE STATEMENT

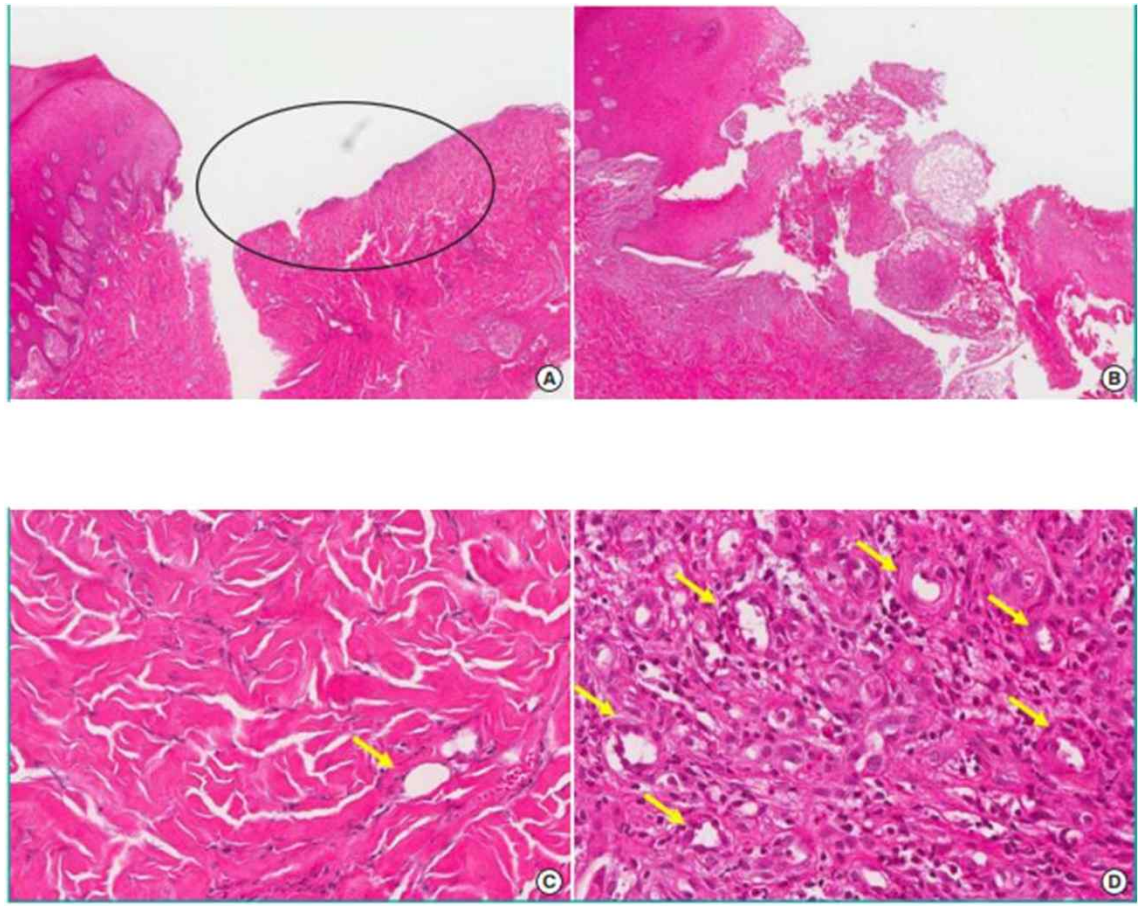
PDRN improved inflammation, increased granulation tissue formation, and increased angiogenesis

FIGURE CONTEXT

Comparison of inflammation after PDRN injection (H&E staining, 40 x).

Comparison of blood vessels after PDRN injection (H&E staining, 200 x).

Before PDRN treatment / 2 weeks after PDRN treatment



Ref.: Archives of Plastic Surgery | 2017;44(6):482-489
DOI: 10.5999/aps.2017.00801

Wrinkles around the eyes over time

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ORIGINAL SOURCE STATEMENT

Efficacy of filler on wrinkles around the eyes over time

FIGURE CONTEXT

PN filler (R product)
HA filler (Y product)

PN filler (R product)
HA filler (Y product)

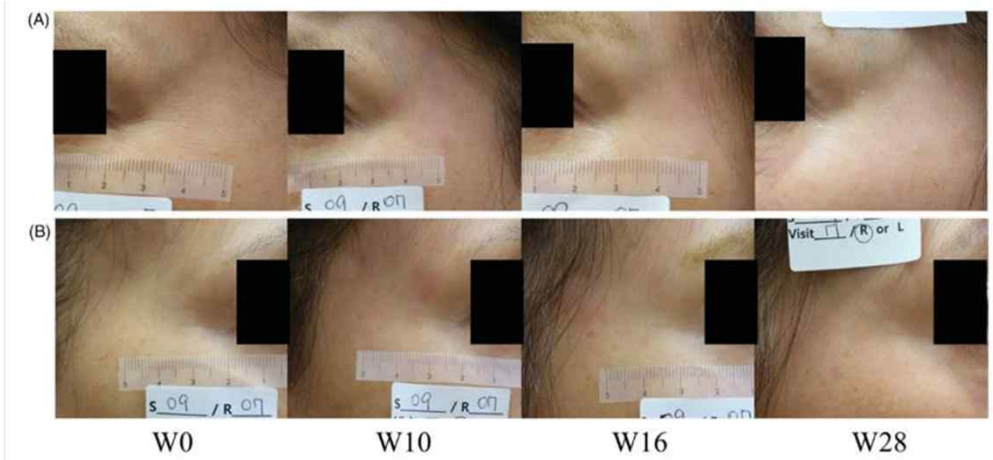


Figure 2. Clinical photographs of a 60-year-old woman at the baseline and weeks 10, 16, and 24. Changes in crow's feet and skin texture on the side treated with polynucleotide filler (A) and hyaluronic acid filler (B) are shown.

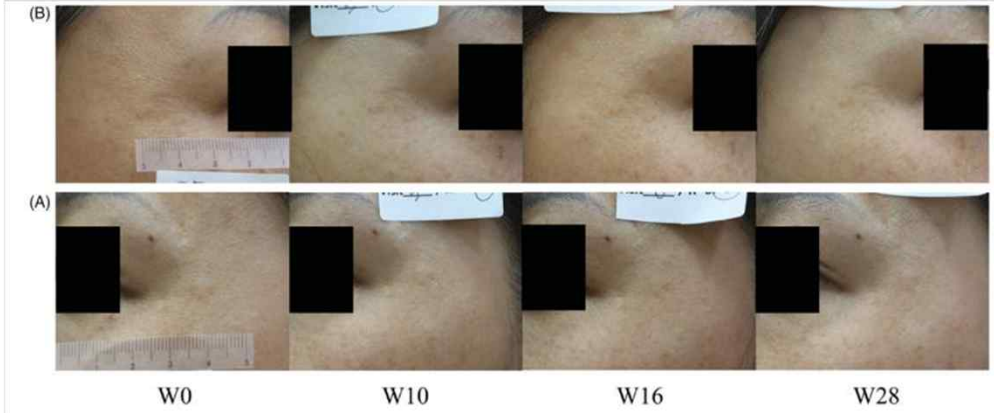


Figure 3. Clinical photographs of a 40-year-old woman at the baseline and weeks 10, 16, and 24. Changes in crow's feet and skin texture on the side treated with hyaluronic acid filler (A) and polynucleotide filler (B) are shown.

Ref.: JOURNAL OF DERMATOLOGICAL TREATMENT 2020;254-260
DOI: 10.1080/09546634.2020.1748857

GAIS and VAS

ORIGINAL SOURCE STATEMENT

Wrinkle improvement was further improved in the PN group on the GAIS scale.

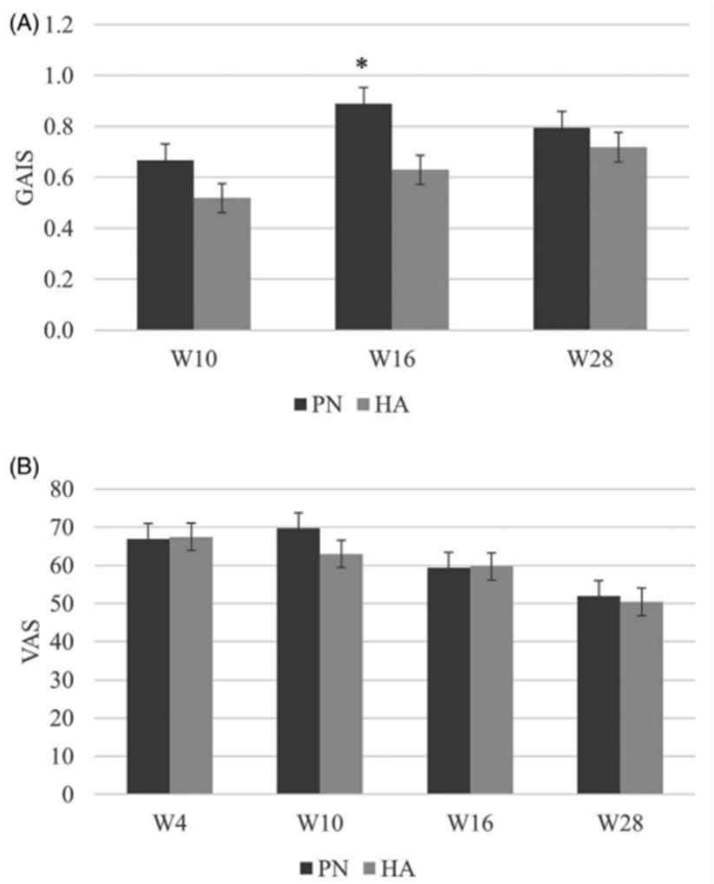


Figure 4. (A) Global aesthetic improvement scale (GAIS) and (B) visual analog scale (VAS) scores of the polynucleotide (PN) and hyaluronic acid (HA) filler groups (*p <.05).

Ref.: JOURNAL OF DERMATOLOGICAL TREATMENT 2020;254-260
DOI: 10.1080/09546634.2020.1748857

Skin texture and pores

ORIGINAL SOURCE STATEMENT

Improvement rate of skin texture and pores was higher in the PN group than in the HA group.

PN fillers are more effective than HA fillers in improving the skin around the eyes.

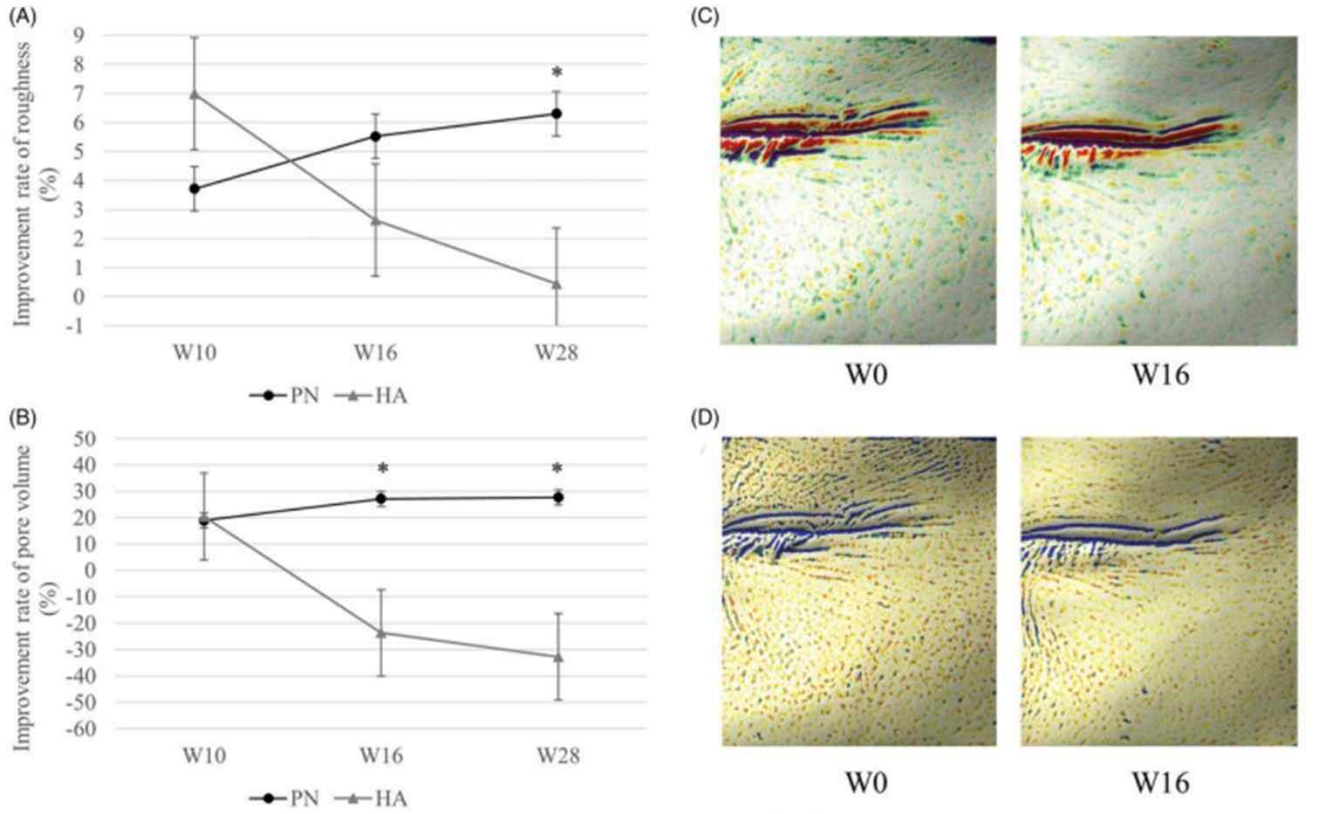


Figure 7. Improvement rates of (A) roughness and (B) pore volume in the polynucleotide (PN) and hyaluronic acid (HA) filler groups (*p <.05). Improvements of (C) roughness (D) pore volume in a 44-year-old woman treated with a PN filler, as observed using Antera 3D, at baseline and week 16.

Ref.: JOURNAL OF DERMATOLOGICAL TREATMENT 2020;254-260
DOI: 10.1080/09546634.2020.1748857

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Skin-quality outcomes

ORIGINAL SOURCE STATEMENT

Although the improvement rate differs over time after PN filler injection, there was improvement in skin thickness, melanin, pore, wrinkle, skin tone, and sagging.

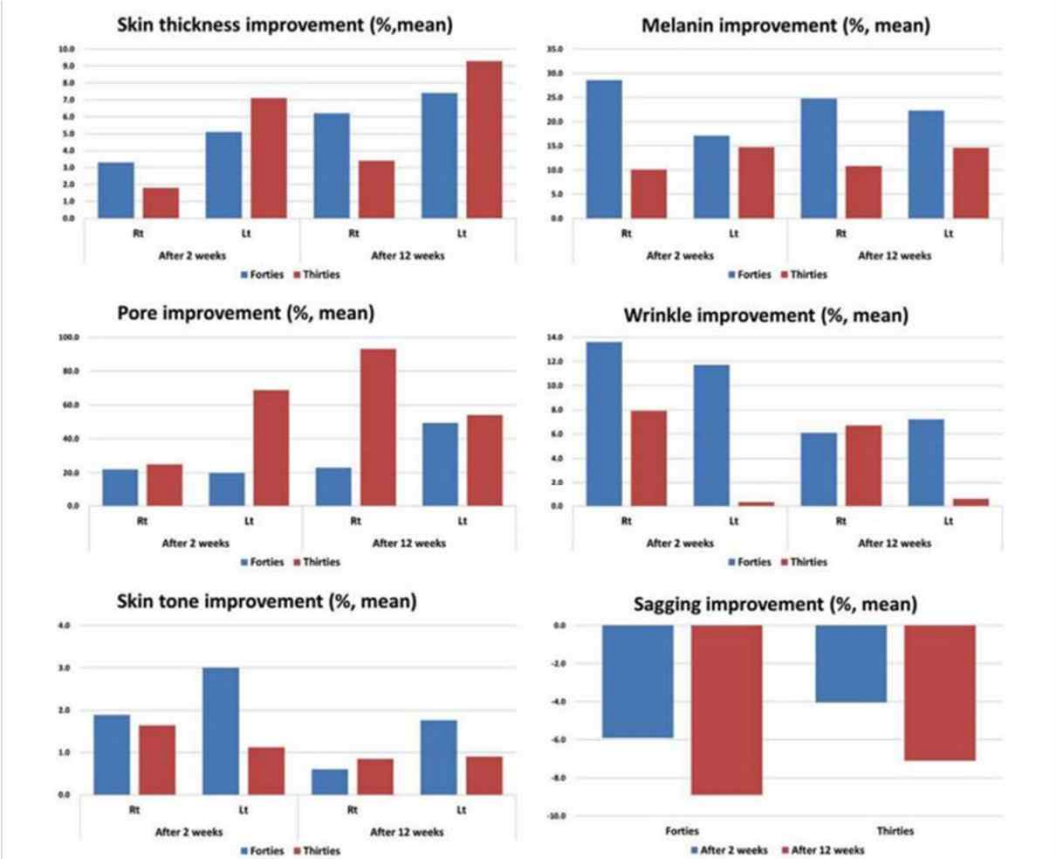


FIG. 1. Marked improvement of pore and skin thickness in patients in their 30s, whereas noticeable improvement of skin tone, melanin, wrinkles, and sagging for patients in their 40s. The pore and skin thickness were checked by Visioface and Skin scanner, respectively. The image of skin tone and melanin were taken with a VISIA-CR and analyzed by Image-Pro. The wrinkle and sagging were checked by PRIMOS and Moire, respectively.

Ref.: Dermatologic Therapy 2016;29:37-40
DOI: 10.1111/dth.12299

Skin tone over time

Skin tone 2 weeks after treatment / Skin tone 12 weeks after treatment



ORIGINAL SOURCE STATEMENT

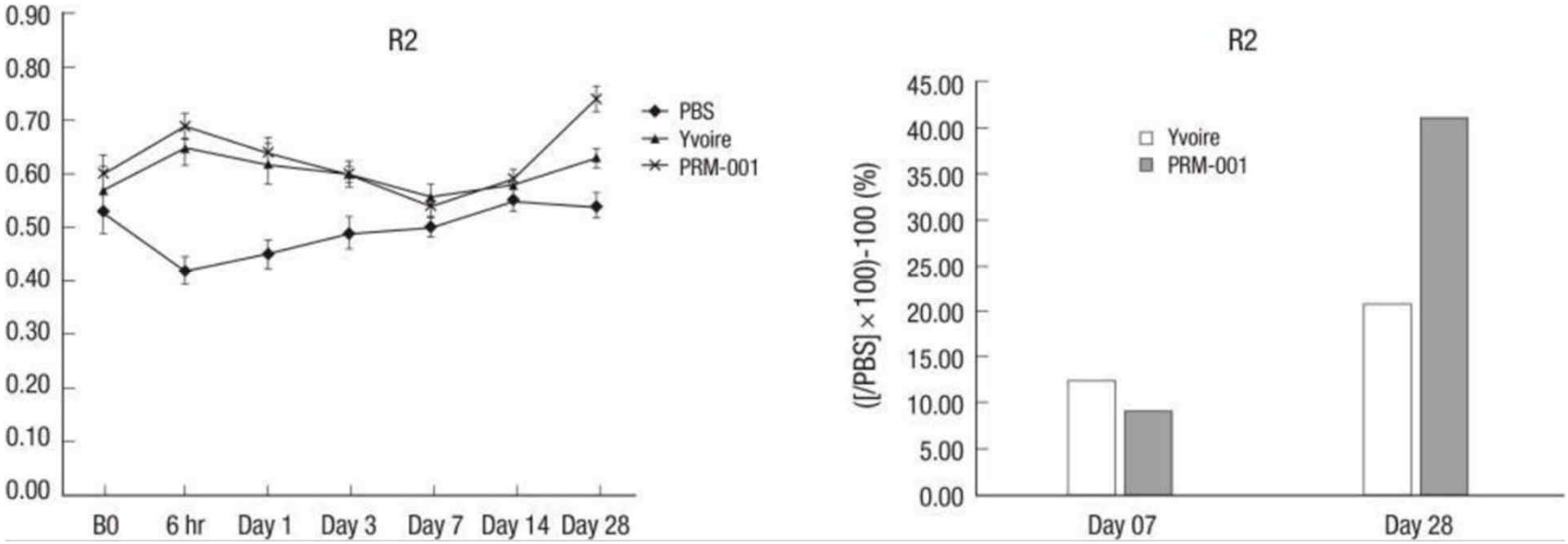
There is an effect of improving skin tone over time. Long-chain PN filler injection is effective and safe for skin improvement.

FIG. 2. Improvement of skin tone 12 weeks after injection photographed by VISIA-CR. There was improvement of skin tone 2 weeks after injection.

Ref.: Dermatologic Therapy 2016;29:37-40
DOI: 10.1111/dth.12299

Skin elasticity over time

RETRACTED / SOURCE HISTORY ONLY



Comparison of skin elasticity compared to the control group over time

ORIGINAL SOURCE STATEMENT

PN filler improves tissue elasticity more than HA filler.

Ref.: Journal of Korean Medical Science | 2014;29:S201-209
DOI: 10.3346/jkms.2014.29.S3.S201

Elastic fibers, collagen and fibroblasts

AB Life

ORIGINAL SOURCE STATEMENT

PN filler is a new regenerative filler that improves skin elasticity and is effective in collagen synthesis.

FIGURE CONTEXT

Changes in elastic fibers, collagen, and fibroblasts over time after HA filler and PN filler injection

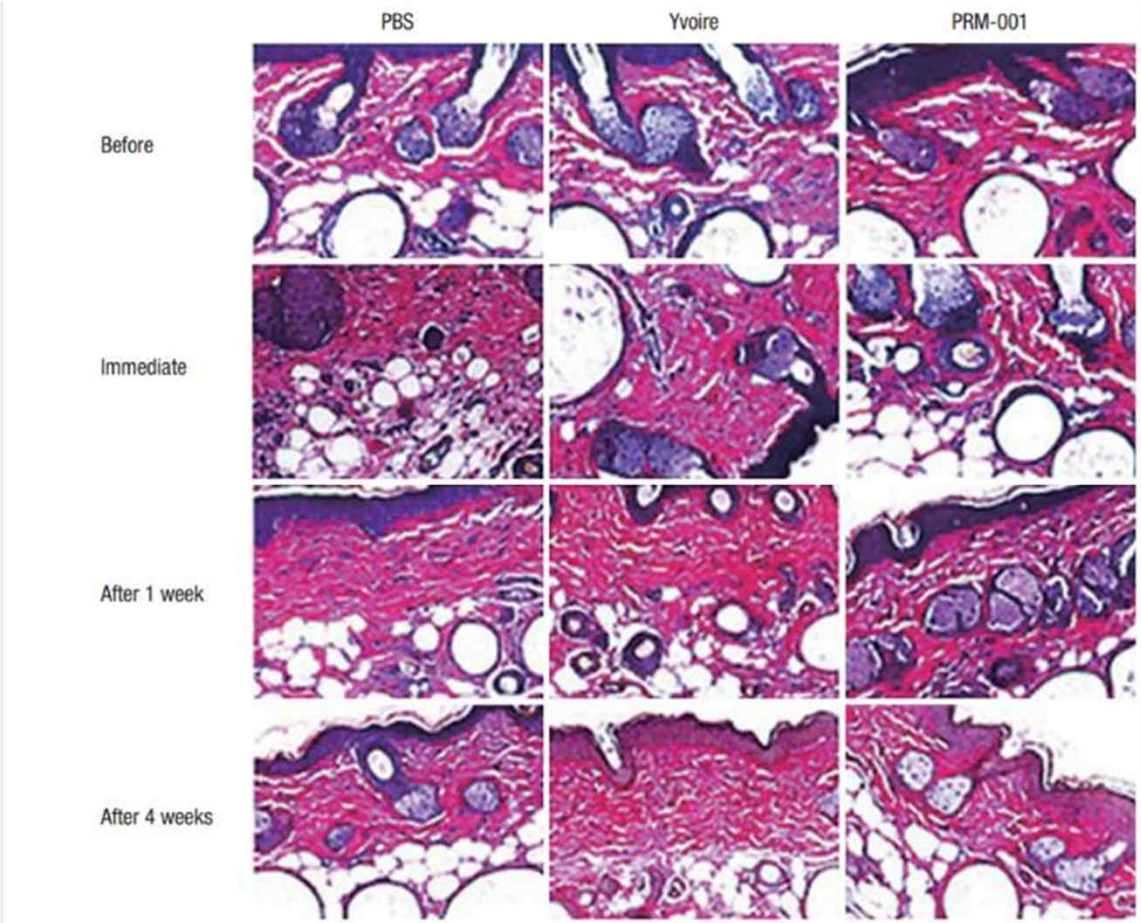


Fig. 5. Van Gieson staining in the animal study.

RETRACTED
SOURCE HISTORY ONLY

Ref.: Journal of Korean Medical Science | 2014;29:S201-209
DOI: 10.3346/jkms.2014.29.S3.S201

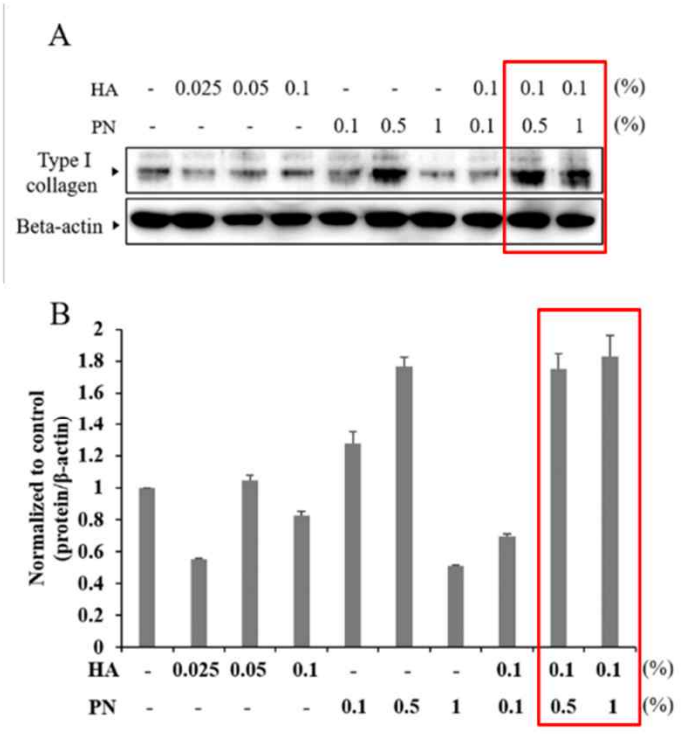
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Western Blot / HA + PN

ORIGINAL SOURCE STATEMENT

Collagen synthesis is highest when HA and PN 1% are treated together.

HA-PN complex filler is more advantageous for skin regeneration effect than using HA filler or PN filler alone.



Quantification of the amount of type I collagen expressed in HDF cells. (**A**) Western blot image. (**B**) Quantification of the type I collagen expression in HDF cells.

Ref.: Scientific Reports | (2020) 10:5127
DOI: 10.1038/s41598-020-61952-w

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