

# HP CELL VITARAN



ENGLISH



**BR** PHARM

## Tissue Restoration and Collagen Production Polynucleotide(PN) Intradermal Injection

- Increase production of collagen and elastin
- Stimulates fibroblasts and growth factors (EGF, IGF, FGF)
- Proved safety and efficacy by clinical study approved by KFDA



### HP CELL VITARAN

- **Package** 1 mL x 2 Syringes
- **Ingredient** : Polynucleotide  
20mg/mL (PN 2%)

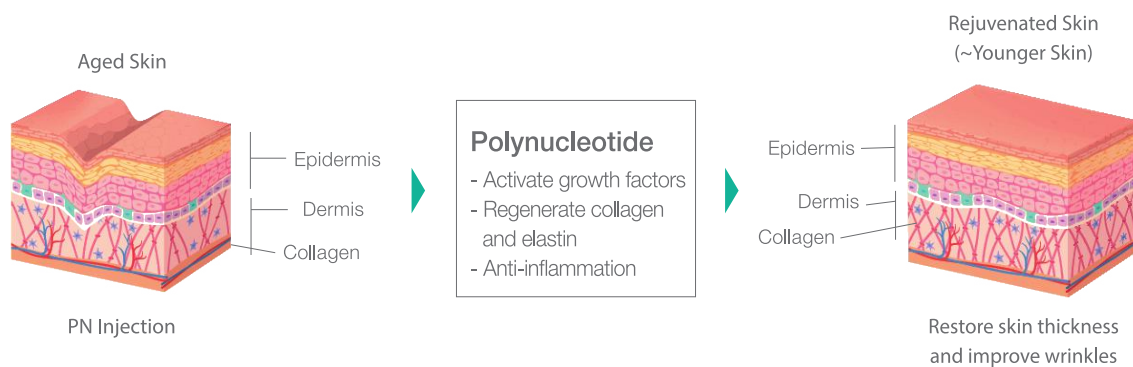
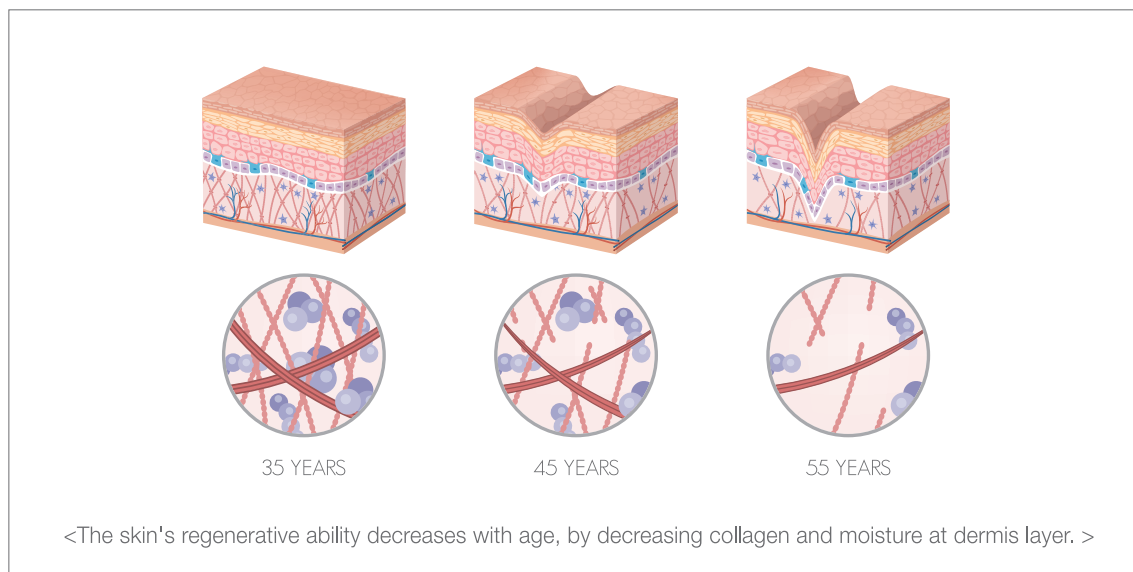


### HP CELL VITARAN II

- **Package** 2 mL x 2 Syringes
- **Ingredient** : Polynucleotide  
20mg/mL (PN 2%)

# VITARAN I - Collagen biostimulator based on polynucleotide

VITARAN i is skin regeneration activator for skin rejuvenation, Restores skin firmness and elasticity, and makes skin radiant.



## VITARAN i promotes natural skin regeneration mechanism by PN.

- ▶ Polynucleotide(PN) is tissue regeneration promoting ingredient. It activates growth factors and induces proliferation of fibroblasts.
- ▶ PN restores the thickness of the skin by generating insufficient collagen and elastin.

- ▶ Reduce Wrinkles & Fine Lines
- ▶ Repair & Regenerate Skin
- ▶ Improve Skin Elasticity
- ▶ Around the Eyes
- ▶ Improve Skin Tone & Texture

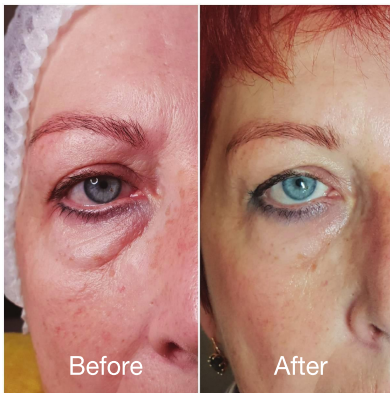
## VITARAN i Treatment Effect (14 days after 1 session)



Improvement of eye wrinkles



Female, 50

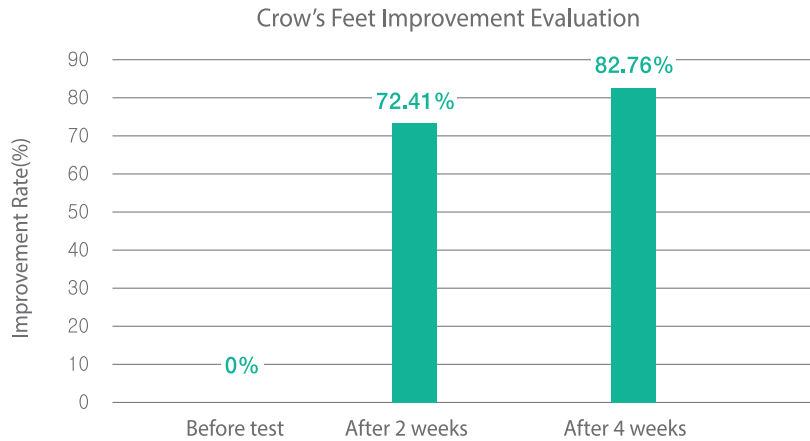
Full face and neck rejuvenation



	Protocol	Phase 1	Phase 2
 <b>Periocular wrinkles</b>	1mL ~ 2mL	3 sessions 3~4week	1 sessions every month
 <b>Full face</b>	2mL ~ 4mL	3 sessions 3~4week	1 sessions every month

# Clinical Data

Clinical study result for periocular wrinkles improvement evaluation



## Study Design

A single-center, randomized, patient & evaluator-blind, matched pairs, pilot study to evaluate the efficacy and safety of VITARAN i injection in Crow's feet. Injection to each of crow's feet of 30 participants (Up to 1ml /each of crow's feet). After initial treatment, repeat treatment 3 times at 2 weeks interval.

## Why HP Cell VITARAN i ?

BR PHARM's polynucleotide



World's first 100% quality control PDRN/PN

- ▶ Seawater aquaculture system (RAS) in Korea
- ▶ Quality control of salmon trouts
- ▶ Stable supply of raw materials



PDRN/PN core technology

- ▶ Patented PDRN/PN purification technology
- ▶ MFDS certification completed



Effects, R&D

- ▶ Exported to over 30 countries around the world, recognized for efficacy
- ▶ Research and development activities for various products and applications

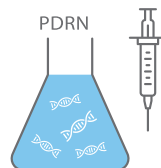
## Total process control for PDRN/PN



100% managed salmon trout using smart RAS system (RAS : Recirculating Aquaculture System)



Patented Unique Molecular Weight Optimization Technology



Certified PDRN API(DMF) and finished products from Korea



# HP CELL VITARAN



[www.brpharm.com](http://www.brpharm.com)



**BR PHARM** | *Venture for  
Tomorrow*  
[www.brpharm.com](http://www.brpharm.com)

#### Head Office & Factory

13, Sinpyeong-ro, Jijeong-myeon,  
Wonju-si, Gangwon-do, Republic of Korea  
**T.** +82-33-901-4500 **F.** +82-33-901-4600

#### BR PHARM Co., Ltd.

E-mail : [brpharm3@brpharm.com](mailto:brpharm3@brpharm.com)

#### Overseas Business Div. & Research Institute

802-803, 1120, C, Hyundai Knowledge Industry Center, 7,  
Beobwon-ro, 11-gil, Songpa-gu, Seoul, Republic of Korea  
**T.** +82-2-2148-6700 **F.** +82-2-2148-6777