



Filling **Deep Wrinkles** and
Depressed Scars with **New skin**

JUVGEN

**“0.001cc Miracle
skin aesthetics”**

Ver. 1.1

truesystems
For Overseas' Marketing



JSDR
J.SELF DERMAL REGENERATION

JUVGEN

*Self Dermal
Regeneration
system*



What is JUVGEN ?

- ▶ JUVGEN is the world's first automatic injection system to help 'Self Dermal Regeneration' procedure
- ▶ 'Self Dermal Regeneration' is a dramatic procedure which can improve **the deep wrinkles, scars, acnes which may not be easy to improve by laser, lifting or filler etc.**
(Published on *Annals of Plastic Surgery* [70\(6\):p 628-631, June 2013.](#))
- ▶ JS DR manufactures and True Systems distributes the JUVGEN, the Self Dermal Regeneration System
- ▶ Please contact us if you are interested in the JUVGEN
True Systems : info@truesystem.co.kr

Long lasting effects of Self Dermal Regeneration

JUVGEN Self Dermal Regeneration

Once treated,
the new skin remains filled and lasts.

One Time

Treatable with a single procedure

Stability

Minimal side effects

Long-lasting

Virtually everlasting effect with new tissue

Before

After



Long lasting effects of Self Dermal Regeneration

Smooth out deep wrinkles with JUVGEN Self Dermal Regeneration

Deep nasolabial folds



Deep glabella frown line



Marionette wrinkles



Deep forehead wrinkles



Filling in depressed scars with JUVGEN Self Dermal Regeneration

Acne depressed scars



Acne depressed scars



Chicken pox scars



Depressed scars

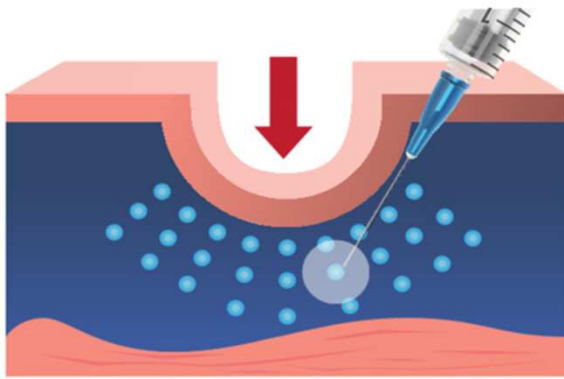


Long lasting effects of Self Dermal Regeneration

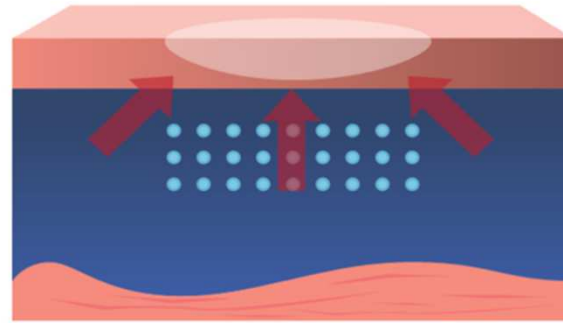
Even after many years, the effects of the procedure are maintained as they are



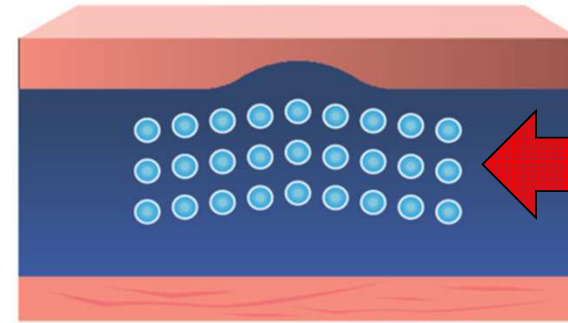
The Principle of JUVGEN Self Dermal Regeneration



Alternately injecting carbon dioxide and hyaluronic acid into the same location in dermis layer (0.001cc unit control)



Physical, chemical and biological reactions occur simultaneously, resulting in the producing of collagen



New tissues are growing and filling in wrinkles or scars with long-lasting effects

Generating new Collagen

1) SUBCISION
(Physical Stimulus by CO₂)

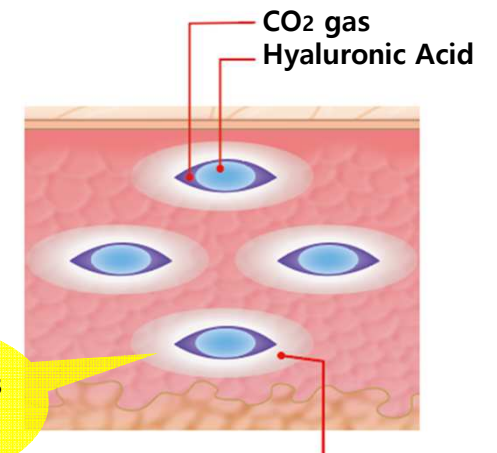
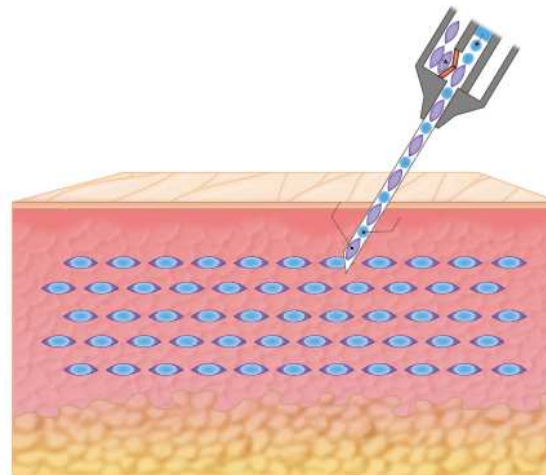
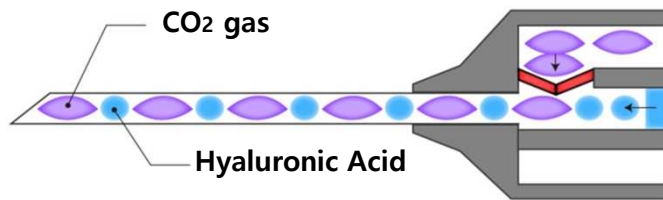
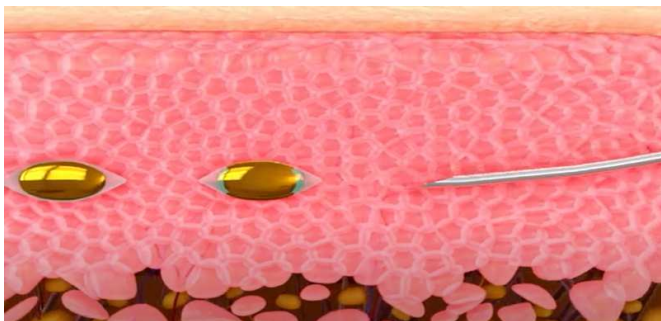
2) CARBOXY THERAPY
(Chemical Stimulus by CO₂)

3) HYALURONIC ACID
(Biological Stimulus by HA)

- ✓ Injected within same location
- ✓ Simultaneously
- ✓ Sustainably

“ Many CO₂ & HA pockets within dermis layer generate the new collagens ”

The Principle of JUVGEN Self Dermal Regeneration



Surroundings
of gas pocket

*Generating new collagens
by physical, chemical and
biological stimulus*

The Academic basis of 'Self Dermal Regeneration'

Annals of Plastic Surgery

Adopted as the cover paper of the World's Top3 Aesthetic Plastic Surgery Journals (SCI) in 2013

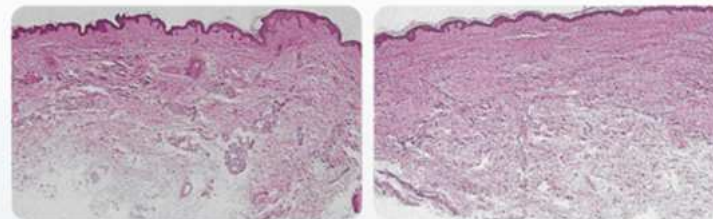


FIGURE 4. Left, Normal skin histology. Right, Histological examination 12 months after intradermal injection of CO₂, showing an increase in collagen accumulation and intense collagen networks. (Hematoxylin-eosin stain, x40.)

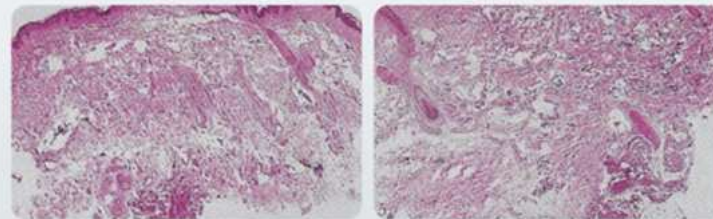


FIGURE 4. Left, Normal skin histology. Right, Histological examination 12 months after intradermal injection of CO₂, showing an increase in collagen accumulation and intense collagen networks. (Hematoxylin-eosin stain, x40.)

AESTHETIC SURGERY

Selective Dermal Rejuvenation Using Intradermal Injection of Carbon Dioxide and Hyaluronic Acid for Facial Wrinkles

[Chin, Sae Hoon MD*](#); [Burm, Jin Sik MD, PhD*](#); [Kim, Youn Wha MD†](#)

[Author Information](#)

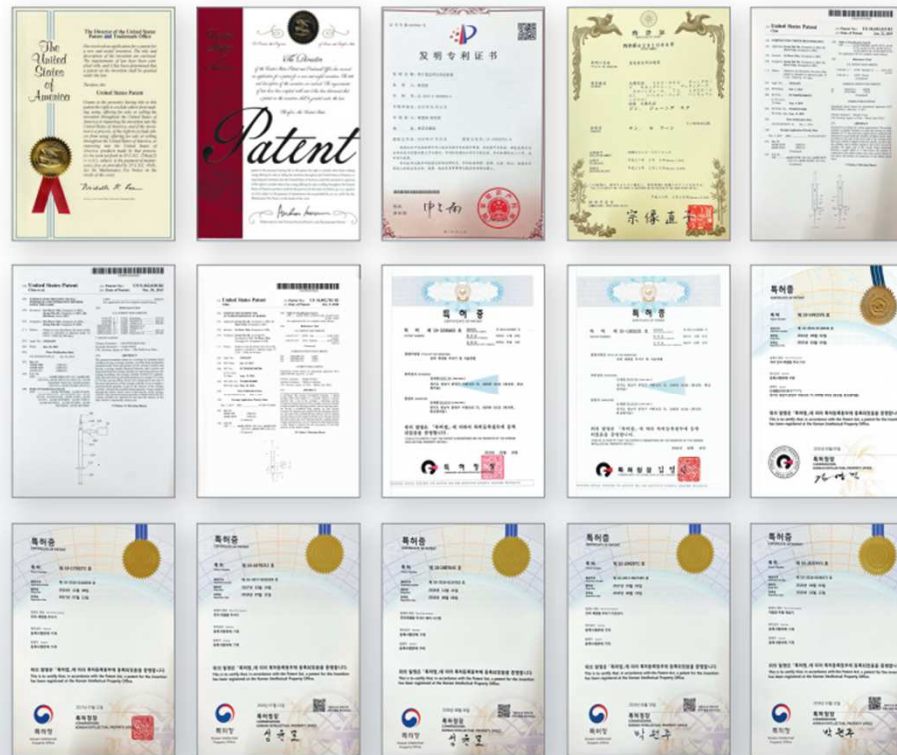
Annals of Plastic Surgery 70(6):p 628-631, June 2013. | DOI: 10.1097/SAP.0b013e31823fa958

Abstract

This study assessed selective dermal rejuvenation using sequential intradermal injections of carbon dioxide and hyaluronic acid as a treatment of facial wrinkles. An injection device was designed. After topical anesthesia, 0.1-mL carbon dioxide was gently injected intradermally so as to spread diffusely. A volume of 0.01- to 0.02-mL diluted hyaluronic acid was sequentially injected until the skin rose slightly. Overlapping injections were performed at 3 to 5 mm intervals. This process was repeated until the wrinkles were smoothed. This study included 36 cases of facial wrinkles in 34 patients. The follow-up period was 3 to 11 months. Temporary adverse effects were injection-site pain, mild edema, and redness. Most cases showed obvious improvement in skin thickness, elasticity, and smoothing. Complications included irregularities and hyperpigmentation in 3 cases, and 91% were highly satisfied with the antiwrinkle treatment. This method was a safe, economical, and clinically effective antiwrinkle treatment.

Patents

Domestic and International Patents



Obtained 17 patents in the US, Japan, China, and Korea!
An additional 27 patents are being applied for!

JUVGEN System – Operation menu

Self Dermal Regeneration System

JUVGEN



Standby | Procedure preparation

Stop | End of procedure, Replacement of injection device

Single | Single Inject the set amount one time

Continuous | continuous injection

0.001 cc ~ 0.05cc | Set injection volume

JUVGEN System – Disposable units

JUVGEN Dual chamber syringe



Dual chamber syringe



Handpiece for ultra-precise
injection

① Hyaluronic Acid Filler



JUVGEN H

HA filler: Composed of a cylinder and a dedicated rod
ingredients: Hyaluronic Acid

② Dual Chamber Syringe



JUVGEN I

Dual-Chamber Syringe : Comprised of herbs, internal
tube, external tube, and extension tube
Alternate injection of two types of substances
into the dermal layer

FAQ for JUVGEN

Question	Answer
Which filler is used ?	We provide our own filler but any other brands also can be used
Biphasic or monophasic filler ?	We use the biphasic filler
Needs to anesthetize before procedure ?	No, normally patients don't feel pain
Where is the needle injected ?	Within the dermis layer of skin, normally within 2 mm depth. Depending on the depth of wrinkles and scars, injection can also be performed in areas where the dermal and fat layers are mixed
The size of needle ?	29 gauges

FAQ for JUVGEN

Question	Answer
Capacity of CO ₂ gas ?	Liquefied CO ₂ , About 500 liters' container
Disposable parts ?	Dual chamber syringe, Filler
How many procedure for improvement ?	Normally one time is enough. Deeper wrinkles or scars may need two time procedures
How long do the effects last ?	We found that the effects last even after many years
Dangerous ?	No, much safer procedure than other procedures
Youtube	https://www.youtube.com/watch?v=eNVd2KJ0xzU



Self Dermal Regeneration System

truesystems
www.truesystem.co.kr