



Exosome GF Complex

# EXOSOME

by BENEV



## EXOSOME

REGENERATIVE COMPLEX

SKIN



## EXOSOME

REGENERATIVE COMPLEX +

SKIN AND SCALP

Powered by Exo-SCRT™

NEXT SMALL THING...NANOPARTICLES OFFERING A NEW FUTURE



10  
NEW BEAUTY  
MAGAZINE

THE DOCTORS

YAHOO!  
BEAUTY

ELLE

REFINERY29

COSMOPOLITAN

1. NEW BEAUTY (Fall/Winter)

2. NEW BEAUTY (Spring/Summer)

3. NEW BEAUTY (Winter/Spring)

4. NEW BEAUTY (Fall/Winter)

5. NEW BEAUTY (Spring/Summer)

6. NEW BEAUTY (Fall/Winter)

7. COSMOPOLITAN (July)

8. COSMOPOLITAN (December)

9. ELLE (June)

10. FEATURED MEDIA

At BENEV our mission is to inspire a more vibrant life and create a more beautiful world by providing products and services that revive, restore, and renew in all facets of the health and beauty market. As an FDA-registered manufacturer based in California, we are expanding our global network with integrity, creativity, and passion in a relentless pursuit to BENEfit EVERYone.

# MEDICAL ADVISORY BOARD

BENEV



**Dr. Jin, M.D., PhD**

BENEV Chief Medical Director  
Dr. Richard Jin M.D PhD is paving a new path with his aesthetic approach to medicine, Dr. Jin focuses on non-invasive regenerative medicine, his philosophy centers around research, development and technology that transforms the aesthetic field today.

“These exosomes have potential application across the field of medicine, and its exciting to see how it will unfold”



**Dr. Duncan, M.D., F.A.C.S**

BENEV Medical Advisor  
Dr. Duncan is an award-winning, globally recognized plastic and reconstructive surgeon, Diane Duncan, has been known both regionally and internationally for over 30 years for her incredible and unique work in all areas of surgical, non-surgical, and minimally-invasive procedures – many of which she has pioneered.

“I never got into PRP, and with this product, I don't have to”



**Dr. Goldfarb, M.D., F.A.C.S**

BENEV Medical Advisor  
Dr. Goldfarb is a highly sought after Surgeon who lectures and trains physicians both nationally and internationally, his established reputation stretches across numerous surgical and aesthetic companies.

“Lyophilizing exosomes, maximizes topical therapeutic potential. Making them ideal for treatments”



**Dr. McCoy, NMD**

BENEV Medical Advisor  
Dr. McCoy is an accomplished naturopathic physician practicing aesthetic medicine with a concentration on cosmetic rejuvenation medicine, his recognition as an innovator and physician. In fact, He is the first Naturopathic Physician to attain membership in the AACS.

“Since implementing this as a protocol I've observed significant improvement in the speed of healing, skin quality and comfort during recovery”



**Dr. Miller, M.D., F.A.C.S**

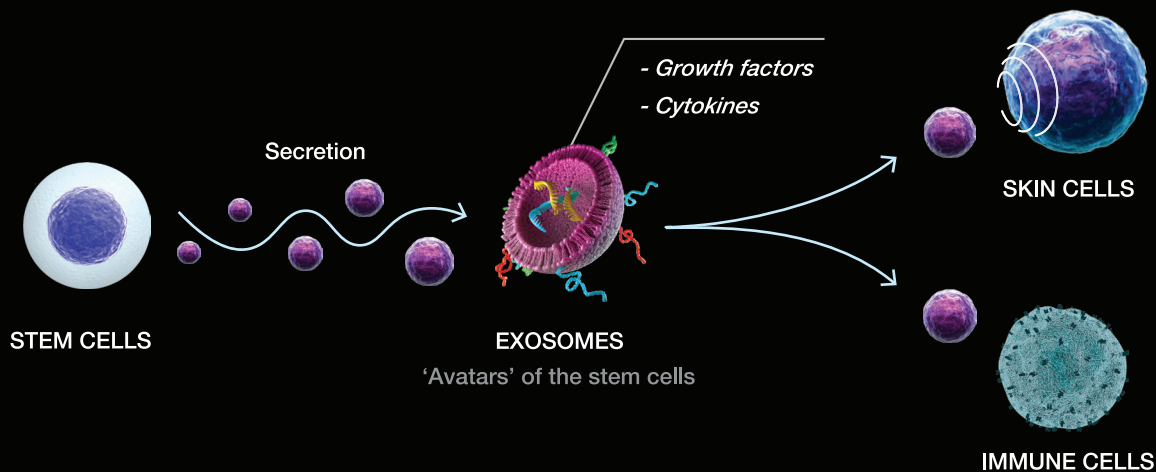
BENEV Medical Advisor  
Dr. Miller is one of the nation's leading innovators in aesthetic surgery of the face, hand, breast and body, and a pioneer of reconstructive surgery and stem cell procedures, Dr. Miller is certified by the American Board of Plastic Surgery and the American Board of Otolaryngology – Head and Neck Surgery, Dr. Miller is the former president of the Miami Society of Plastic Surgeons, the Florida Society of Plastic Surgeons, and the Plastic Surgeons Patient Safety Foundation. He served five consecutive terms on the Board of Directors of the Dade County Medical Association.

“The science is clearly demonstrating that exosomes are the wave of the future, not just for aesthetics, but for many other areas of medicine”

“ ExoCoBio's commitment to science, research and clinical, is what made the decision to partner with them, a winning choice ”

**Ethan Min - President/CEO  
BENEV Company Inc.**

## SCIENCE AND TECHNOLOGY



### WHAT ARE EXOSOMES?

BENEV Exosome treatments are based on the most cutting edge scientific biotech breakthrough for skin rejuvenation and regeneration. Exosomes are responsible for cell to cell communication and for facilitating the exchange of RNA and other important proteins between cells (e.g. fibroblasts, keratinocytes, immune cells, etc.), in addition to transferring numerous growth factors and cytokines and genetic materials that have shown signs of tissue repair and improving skin cells. These data coding avatars have been harnessed for our new line of exosome products to promote a more radiant youthful appearance.

### WHAT IS ExoSCRT™

Exosome, an 30~200 nm endoplasmic reticulum that is secreted for cell-to-cell communication, plays an important role in influencing the micro environment around cells, ExoSCRT™ is an innovative technology to separate and refine 0.1% pure exosomes from stem cells and helps the visualization of natural skin energy by affecting skin cells effectively.

BENEV Exosome Regenerative Complex powered by Exo-SCRT™ and BENEV Exosome Regenerative Complex + powered by Exo-SCRT™ are post care "topical use" cosmetic solutions. The isolated and purified exosomes in both products have been accepted by the PCPC, and International Cosmetic Ingredient Nomenclature Committee (INC), and the name 'Human Adipose Stromal Cell Exosomes' was given and published in the International Cosmetic Ingredient Dictionary and Handbook, known as INCI book. There are at this time no other cosmetic INCI name(s) assigned to exosome products in the market prior to this accomplishment. These products are not drug products. They are not intended to prevent, treat or cure diseases or medical conditions. They are not intended to be injected or delivered intravenously.

# EXOSOME

REGENERATIVE COMPLEX +

SKIN & SCALP

# EXOSOME

REGENERATIVE COMPLEX

SKIN



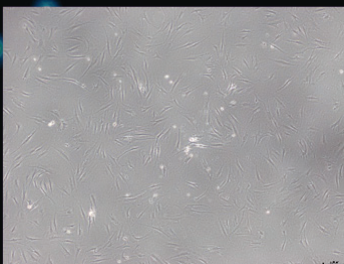
## IN VITRO TESTING

# IN VITRO TESTING

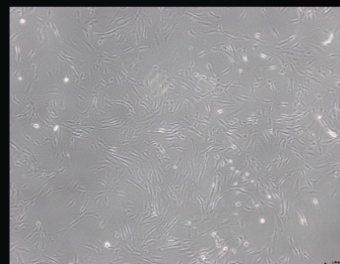
## HUMAN FIBROBLAST CELL PROLIFERATION

Exosome Regenerative Complex and Exosome Regenerative Complex + powered by ExoSCRT™ promotes skin cell proliferation by up to 80% in a dose-dependent manner. ExoSCRT™ 3 µg/ml 36.1% increase, ExoSCRT™ 6 µg/ml 84.0% increase, compared against positive control (1% GS).

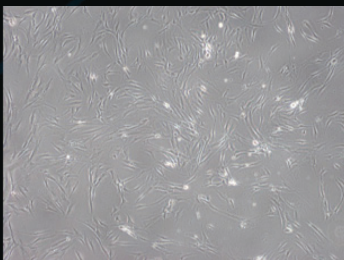
NEGATIVE CONTROL



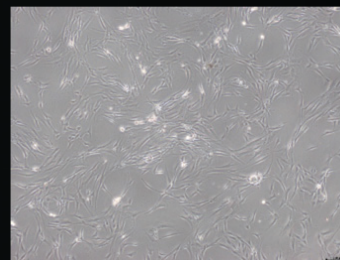
1% GROWTH SUPPLEMENTS



1% GS + ERC 3 µG/ML

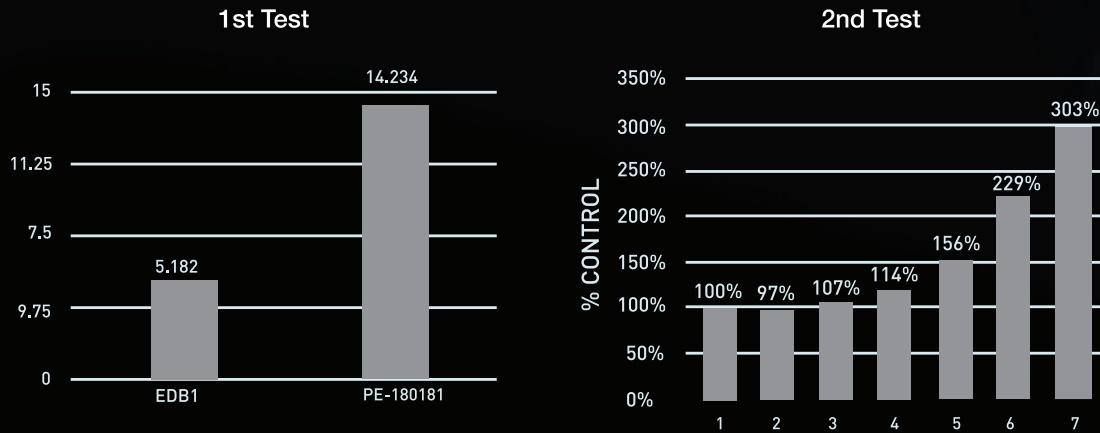


1% GS + ERC 6 µG/ML



## ELASTIN INCREASE BY ExoSCRT™

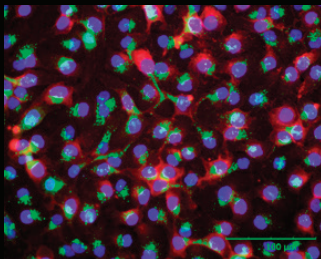
Exosome Regenerative Complex and Exosome Regenerative Complex + powered by ExoSCRT™ may increase the elastin amount of human dermal fibroblasts up to 300% in vitro.



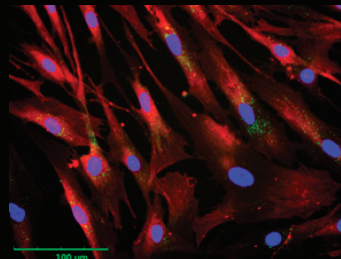
## CELLULAR UPTAKE OF EXOSOMES

Human skin cells easily uptake BENEV Exosome Regenerative Complex and Exosome Regenerative Complex + powered by ExoSCRT™ which means that stem cell-derived exosomes can message skin cells to “Do Something”.

HACAT HUMAN KERATINOCYTES



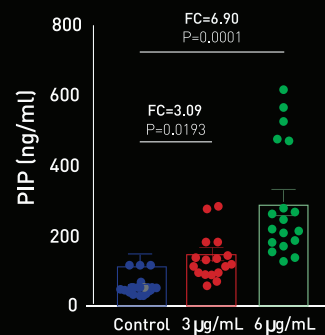
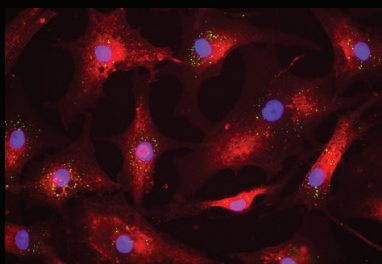
HDF HUMAN DERMAL FIBROBLAST



## COLLAGEN INCREASE BY ExoSCRT™

After delivery of BENEV Exosome Regenerative Complex and Exosome Regenerative Complex + powered by ExoSCRT™ into fibroblasts, neocollagenesis can increase up to 6 folds.

CELLULAR UPTAKE OF EXOSOMES  
HUMAN DERMAL FIBROBLAST



## IN VIVO TESTING

# IN VIVO TESTING

Exosomes are nano-sized vesicles (30–200 nm) constantly released by almost all cells. The ability of exosomes to travel between cells and deliver their cargo, which includes lipids, proteins, and nucleic acids, makes them an appealing cell-free therapy option to treat multiple diseases. Here, we investigated for the first time whether human adipose tissue-derived mesenchymal stem cell-derived exosomes can ameliorate atopic dermatitis (AD) in an in vivo mouse model. When injected either intravenously (IV) or subcutaneously (SC) into NC/Nga mice treated with house dust mite antigens, ERC-exosomes were found to reduce pathological symptoms such as clinical score, the levels of serum IgE, the number of eosinophils in blood, and the infiltration of mast cells, CD86+, and CD206+ cells in skin lesions. ERC-exosomes also significantly reduced mRNA expression of various inflammatory cytokines such as interleukin (IL)-4, IL-23, IL-31, and tumor necrosis factor (TNF-) in AD skin lesions of Nc/Nga mice. Taken together, these results suggest that ERC-exosomes can be a novel promising cell-free therapeutic modality for AD treatment. (Byong Seung Cho, Jin Ock Kim, Dae Hyun Ha and Yong Weon - Stem Cell Research Therapy, BioMedCentral.com)





# PUBLICATIONS

- 01 **BMC**  11/07/18  
**Exosomes derived from human adipose tissue-derived mesenchymal stem cells alleviate atopic dermatitis**  
*Byong Seung Cho, Jin Ock Kim, Dae Hyun Ha and Yong Weon Yi*
- 02 **MDPI, International Journal of Molecular Sciences**  19/01/20  
**Advances in Analysis of Biodistribution of Exosomes by Molecular Imaging**  
*Yong Weon Yi, Jun Ho Lee, Sang-Yeob Kim, Chan-Gi Pack, Dae Hyun Ha, Sang Rae Park, Jinkwon Youn and Byong Seung Cho*
- 03 **MDPI, Basel, Switzerland**  10/03/20  
**Exosomes from Human Adipose Tissue-Derived Mesenchymal Stem Cells Promote Epidermal Barrier Repair**  
*Kyong-Oh Shin, Dae Hyun Ha, Jin Ock Kim, Debra A. Crumrine, Jason M. Meyer, Joan S. Wakefield, Yerin Lee, Bogyong Kim, Sungeun Kim, Hyun-keun Kim, Joon Lee, Hyuck Hoon Kwon, Gyeong-Hun Park, Jun Ho Lee, Jihye Lim, Sejeong Park, Peter M. Elias, Kyungho Park, Yong Weon Yi, and Byong Seung Cho*
- 04 **MDPI, Basel, Switzerland**  07/05/20  
**Mesenchymal Stem Cell-Derived Exosomes for Immunomodulatory Therapeutics and Skin Regeneration**  
*Dae Hyun Ha,†, Hyun-keun Kim,†, Joon Lee, Hyuck Hoon Kwon, Gyeong-Hun Park, Steve Hoseong Yang, Jae Yoon Jung, Hosung Choi, Jun Ho Lee, Sumi Sung, Yong Weon Yi, and Byong Seung Cho,*
- 05 **Regulatory Toxicology and Pharmacology** 14/05/20  
**Toxicological evaluation of exosomes derived from human adipose tissue-derived mesenchymal stem/stromal cells**  
*Dae Hyun Ha, Sun-Don Kim, Joon Lee, Hyuck Hoon Kwon, Gyeong-Hun Park, Steve Hoseong Yang, Jae Yoon Jung, Jun Ho Lee, Sang Rae Park, Jinkwon Youn, Sang Hee Lee, Ji Eun Kim, Jihye Lim, Hyun-Kul Lee, Byong Seung Cho, Yong Weon Yi*
- 06 **Acta Dermato-Venereologica** 19/10/20  
**Combination Treatment with Human Adipose Tissue Stem Cell-derived Exosomes and Fractional CO<sub>2</sub> Laser for Acne Scars: A 12-week Prospective, Double-blind, Randomized, Split-face Study**  
*Hyuck Hoon KWON, Steven Hoseong YANG, Joon LEE, Byung Chul PARK, Kui Young PARK, Jae Yoon JUNG, Youin BAE and Gyeong-Hun PARK*

To see and read more clinical papers scan the QR Code below



SCAN ME

## EXOSOMES REGENERATIVE COMPLEX



# EXOSOME

## REGENERATIVE COMPLEX

POWERED by ExoSCRT™

SKIN

### EXOSOME REGENERATIVE COMPLEX

*POWERED by ExoSCRT™*

Exosome Regenerative Complex is an intensive dual-action complex formulated to absorb quickly into the skin delivering the concentrated power of STEM CELL DERIVED LYOPHILIZED EXOSOMES, potent GROWTH FACTORS, PEPTIDES, COENZYMES, MINERALS, AMINO ACIDS, and VITAMINS. Our paraben-free, steroid-free, and hypoallergenic patented technologies and ingredients are clinically proven to rejuvenate and regenerate the skin.

# ADVANCED INGREDIENTS

Exosome  
3 Humectants

16 Growth Factor + Peptides  
19 Amino Acids

1 Vitamin  
4 Coenzymes

5 Minerals

## LYOPHILIZED EXOSOME | 20 MG

### EXOSOME

Human Adipose Stromal Cell Exosome

#### GROWTH FACTORS + PEPTIDES

sh-Oligopeptide-1	Acetyl Hexapeptide-8
sh-Oligopeptide-2	Copper Tripeptide-1
sh-Polypeptide-1	Nonapeptide-1
sh-Polypeptide-3	Palmitoyl Pentapeptide-4
sh-Polypeptide-22	Palmitoyl Tetrapeptide-7
	Palmitoyl Tripeptide-1
	Glutathione

#### COENZYMES

Thiamine Diphosphate  
Coenzyme A  
Nicotinamide Adenine Dinucleotide  
Disodium Flavine Adenine Dinucleotide

#### AMINO ACIDS

Arginine	Methionine
Lysine HCl	Glutamine
Valine	Alanine
Histidine	Tryptophan
Leucine	Tyrosine
Isoleucine	Aspartic Acid
Phenylalanine	Glycine
Serine	Glutamic Acid
Threonine	Ornithine HCl
Proline	

#### HUMECTANTS

Trehalose  
Mannitol

#### VITAMIN

Ascorbic Acid

#### MINERALS

Magnesium Sulfate  
Potassium Chloride

Exosome therapy is the latest treatment that is impressing doctors – many argue that exosomes may be more important than stem cells due to their unique ability to function as a “messenger” within the body, transferring information from cell to cell. Enhancing stem cell therapy with added exosomes is considered superior and optimal therapy.

## DILUENT | 5 ML

#### GROWTH FACTORS + PEPTIDES

sh-Decapeptide-7  
sh-Octapeptide-4  
sh-Oligopeptide-9  
sh-Pentapeptide-5

#### AMINO ACIDS

Alanine	Isoleucine
Arginine	Phenylalanine
Lysine HCl	Serine
Valine	Threonine
Histidine	Proline
Leucine	

#### HUMECTANT

Sodium Hyaluronate

#### MINERALS

Sodium Chloride  
Disodium Phosphate  
Sodium Phosphate  
Potassium Chloride

Growth factors play a pivotal role in maintaining firmness and elasticity in your skin. Daily use of skin care products containing growth factors is known to help reduce the appearance of fine lines, wrinkles and improve skin tone and texture.

# BEFORE & AFTER

EXOSOME REGENERATIVE COMPLEX

## PROCEDURE BASED RESULTS

---

### POST MICRO NEEDLING



Before

After

Age: 28 | Photo Provided by: Dr. Diane Duncan, MD.,F.A.C.S

### POST PLASMA



Before

After

Age: 57 | Photo Provided by: Dr. Richard Goldfarb, MD., F.A.C.S

### POST MICRO NEEDLING



Before

After

Age: 49 | Photo Provided by: Dr. Richard Goldfarb, MD., F.A.C.S

### POST PLASMA



Before

After

Age: 53 | Photo Provided by: Dr. Randy Miller, MD., F.A.C.S

### POST ERBIUM LASER



Before

After

Age: 58 | Photo Provided by: Dr. Diane Duncan, MD.,F.A.C.S

### POST PLASMA



Before

After

Age: 58 | Photo Provided by: Dr. JD McCoy NMP



Before

After

Age: 65 | Photo Provided by: Lauren Olson, PA-C

Patient trial photos (Mei Vu™) were taken before and after a 3 - 5 EXO-XOM FACIAL™ Clinical Study featured BENEV Exosome Regenerative Complex powered by ExoSCRT™. Participants experienced no irritation, and all patients reported that they felt and saw a noticeable and immediate difference in the overall appearance of their skin after just the first treatment, with full results after the 3rd-5th treatment. To learn more about the double blind study conducted by BENEV Company Inc. Please visit [www.BENEV.com](http://www.BENEV.com)

## EXOSOME REGENERATIVE COMPLEX

### LYOPHILIZED EXOSOME & DILUENT FOR SKIN



1<sup>ST</sup> Lyophilized Exosome ----- 20 mg

2<sup>ND</sup> Diluent ----- 5 ml

### DIRECTIONS

1. Open carton, and combine 1 Vial of Diluent into 1 Vial of Lyophilized Exosome. Mix thoroughly.
2. Cleanse skin and scalp thoroughly and dry completely.
3. Apply Exosome Regenerative Complex to skin, using the entire vial.  
NOTE : Use immediately after mixing, not exceeding 3 hours
4. Follow with appropriate moisturizer and protection.

### STORAGE INSTRUCTION

- ◆ Store at 2°C to 8°C immediately upon receiving.
- ◆ Product is good for up to 24 months from the date of manufacturing when stored in the refrigerator.
- ◆ Once a vial has been opened, the expiry date is no longer valid.
- ◆ Should the product have been exposed to room temperature, the product is still considered to be viable so long as it has not surpassed 14 days, and has been immediately put into refrigeration.





# EXOSOME

## REGENERATIVE COMPLEX +

POWERED by ExoSCRT™

SKIN AND SCALP

### EXOSOME REGENERATIVE COMPLEX +

*POWERED by ExoSCRT™*

More Powerful. More Potent. Faster Results.

Our clinically proven paraben free and hypoallergenic intensive dual action complex is designed to absorb quickly into the skin delivering the concentrated power of STEM CELL DERIVED LYOPHILIZED EXOSOMES, potent GROWTH FACTORS, PEPTIDES, COENZYMES, MINERALS, AMINO ACIDS, VITAMINS, and irritation reduction agents to rejuvenate, and intensely moisturize the skin and scalp.

# ADVANCED INGREDIENTS

Exosome  
3 Humectants

15 Growth Factor + Peptides  
19 Amino Acids

2 Vitamins  
4 Coenzymes

5 Minerals

## LYOPHILIZED EXOSOME | 20 MG

### EXOSOME

Human Adipose Stromal Cell Exosome

### GROWTH FACTORS + PEPTIDES

sh-Oligopeptide-1  
sh-Oligopeptide-4  
sh-Polypeptide-4  
sh-Polypeptide-9  
sh-Polypeptide-13  
sh-Polypeptide-58

sh-Polypeptide-62  
sh-Polypeptide-3  
sh-Oligopeptide-2  
Caffeoyl sh-Octapeptide-4  
Copper Tripeptide-1

### COENZYMES

Thiamine Diphosphate  
Coenzyme A  
Nicotinamide Adenine Dinucleotide  
Disodium Flavine Adenine Dinucleotide

### AMINO ACIDS

Arginine  
Lysine HCl  
Valine  
Histidine  
Leucine  
Isoleucine  
Phenylalanine  
Serine  
Threonine  
Proline

Methionine  
Glutamine  
Alanine  
Tryptophan  
Tyrosine  
Aspartic Acid  
Glycine  
Glutamic Acid  
Ornithine HCl

### HUMECTANTS

Trehalose  
Mannitol

### VITAMINS

Biotin  
Ascorbic Acid

### MINERALS

Magnesium Sulfate  
Potassium Chloride

Exosome therapy is the latest treatment that is impressing doctors – many argue that exosomes may be more important than stem cells due to their unique ability to function as a “messenger” within the body, transferring information from cell to cell. Enhancing stem cell therapy with added exosomes is considered superior and optimal therapy.

## DILUENT | 5 ML

### GROWTH FACTORS + PEPTIDES

sh-Decapeptide-7  
sh-Octapeptide-4  
sh-Oligopeptide-9  
sh-Pentapeptide-5

### AMINO ACIDS

Alanine  
Arginine  
Lysine HCl  
Valine  
Histidine  
Leucine

Isoleucine  
Phenylalanine  
Serine  
Threonine  
Proline

### HUMECTANT

Sodium Hyaluronate

### MINERALS

Sodium Chloride  
Disodium Phosphate  
Sodium Phosphate  
Potassium Chloride

Growth factors play a pivotal role in maintaining firmness and elasticity in your skin. Daily use of skin care products containing growth factors is known to help reduce the appearance of fine lines, wrinkles and improve skin tone and texture.

# BEFORE & AFTER

EXOSOME REGENERATIVE COMPLEX +

## PROCEDURE BASED RESULTS

### POST RF MICRO NEEDLING



Before

After

Female

- Protocol: 5 sessions
- Noticeable improvement in skin clarity and redness
- Clinical conducted by : Trina Barr

### POST MICRO NEEDLING



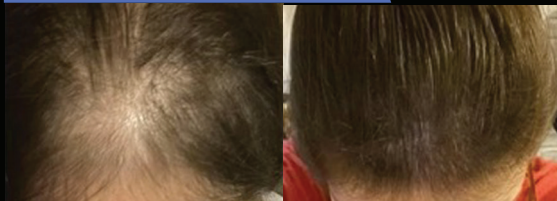
Before

After

Male

- Protocol : 1 month interval, 6 sessions of treatments
- Noticeable improvement in hair density and scalp health
- Clinical conducted by : Dr. Inigo De Felipe

### POST MICRO NEEDLING



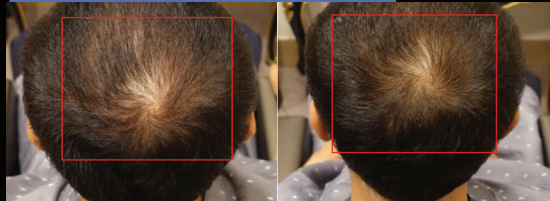
Before

After

Female | 30's

- Protocol: 1 week interval, 2 sessions
- Noticeable improvement in hair density and scalp health

### POST MICRO NEEDLING



Before

After

Male | 60's

- Protocol : 2 weeks interval, 8 sessions
- Noticeable improvement in hair density and scalp health
- The patient did not take any medication for hair loss
- Clinical conducted by: Dr. Hwang HeuiLee, Cheongdam NB Clinic

### POST MICRO NEEDLING



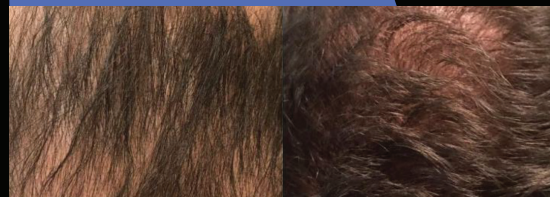
Before

After

Male | 40's

- Protocol: 1 week interval, 5 sessions
- Noticeable improvement in hair density and scalp health
- Clinical conducted by : Dr. Chang Ro Lee, Leo Clinic

### POST MICRO NEEDLING



Before

After

Male

- Protocol : 1 month interval, 6 sessions of treatments
- Noticeable improvement in hair density and scalp health
- Clinical conducted by : Dr. Inigo De Felipe

Patient trial photos (Mei Vu™) were taken before and after a 3 - 5 EXO-XOM FACIAL™ Clinical Study featuring BENEV Exosome Regenerative Complex + powered by ExoSCRT™. Participants experienced no irritation, and all patients reported that they felt and saw a noticeable and immediate difference in the overall appearance of their skin after just the 1st treatment, with full results after the 3rd-5th treatment. Visit [www.BENEV.com](http://www.BENEV.com) to see more before and after.



## EXOSOME REGENERATIVE COMPLEX + LYOPHILIZED EXOSOME & DILUENT FOR SKIN AND SCALP



1<sup>ST</sup> Lyophilized Exosome ----- 20 mg

2<sup>ND</sup> Diluent ----- 5 ml

### DIRECTIONS

1. Open carton, and combine 1 Vial of Diluent into 1 Vial of Lyophilized Exosome. Mix thoroughly.
2. Cleanse skin and scalp thoroughly and dry completely.
3. Apply Exosome Regenerative Complex + to skin and scalp, using the entire vial.  
NOTE : Use immediately after mixing, not exceeding 3 hours
4. Follow with appropriate moisturizer and protection.

### STORAGE INSTRUCTION

- ◆ Store at 2°C to 8°C immediately upon receiving.
- ◆ Product is good for up to 24 months from the date of manufacturing when stored in the refrigerator.
- ◆ Once a vial has been opened, the expiry date is no longer valid.
- ◆ Should the product have been exposed to room temperature, the product is still considered to be viable so long as it has not surpassed 14 days, and has been immediately put into refrigeration.

## COMPARISON CHART

# EXOSOME

## REGENERATIVE COMPLEX

### SKIN

- ✓ Noticeably reduces the appearance of age related pigment
- ✓ Visibly makes skin appear firmer and more youthful
- ✓ Visibly reduces the appearance of fine lines and wrinkles
- ✓ Hydrates and nourishes skin
- ✓ Promotes a more radiant and even toned complexion

CLINICALLY PROVEN

INTENSIVE  
DUAL ACTION

BREAKTHROUGH  
TECHNOLOGY



# EXOSOME

REGENERATIVE COMPLEX +

## SKIN

- Noticeably reduces the appearance of age related pigment ✓
- Visibly makes skin appear firmer and more youthful ✓
- Visibly reduces the appearance of fine lines and wrinkles ✓
- Hydrates and nourishes skin ✓
- Promotes a more radiant and even toned complexion ✓

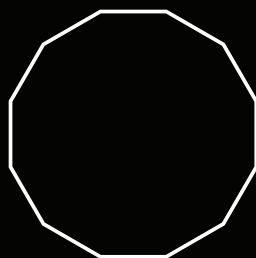
## SCALP

- Hydrates and nourishes the scalp ✓
- Promotes a healthy hair growth cycle ✓
- Visibly makes hair look and feel softer, shinier, and fuller ✓
- Noticeably reduces hair shedding ✓

MORE POWERFUL

MORE POTENT

FASTER RESULTS



**BENEV**

Global partner in medical aesthetics™

BENEV Company Inc.  
23263 Madero # A, Mission Viejo, CA 92691  
[www.BENEV.com](http://www.BENEV.com)  
Phone 949-457-2222