



CG *Di*MONO^{PTx}

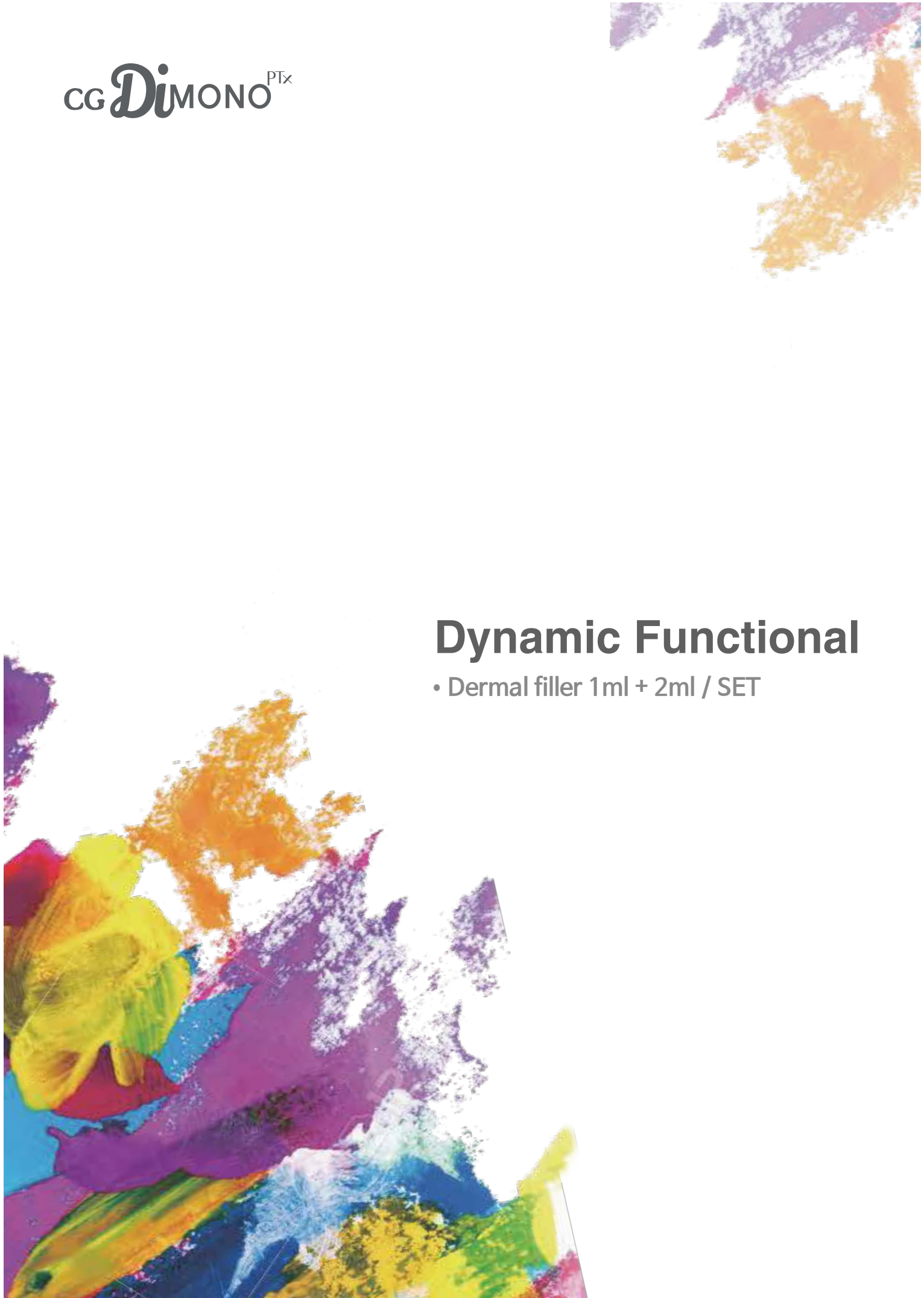
Cupactuel
MEDICAL
Preventive and Restorative Aesthetic

Dynamic Functional
Dermal filler

CG *Di*MONO^{PTx}

Dynamic Functional

• Dermal filler 1 ml + 2ml / SET



DESCRIPTION

CG Dimono^{PTX} is injected into the mid-to-deep dermal layer at the site of the cutaneous depression in need of implantation for the treatment of subcutaneous tissue damage caused by chemical, physical and traumatic effects like facial wrinkles, folds or nasolabial folds and to restore the shape of the face.

PBS (Phosphate Buffered Saline)

Sodium Hyaluronate (1.0%)

Peptide Complex(Sh-Pentapeptide-12 SP, Octapeptide-11)



Dynamic Functional dermal filler 1ml, 2ml

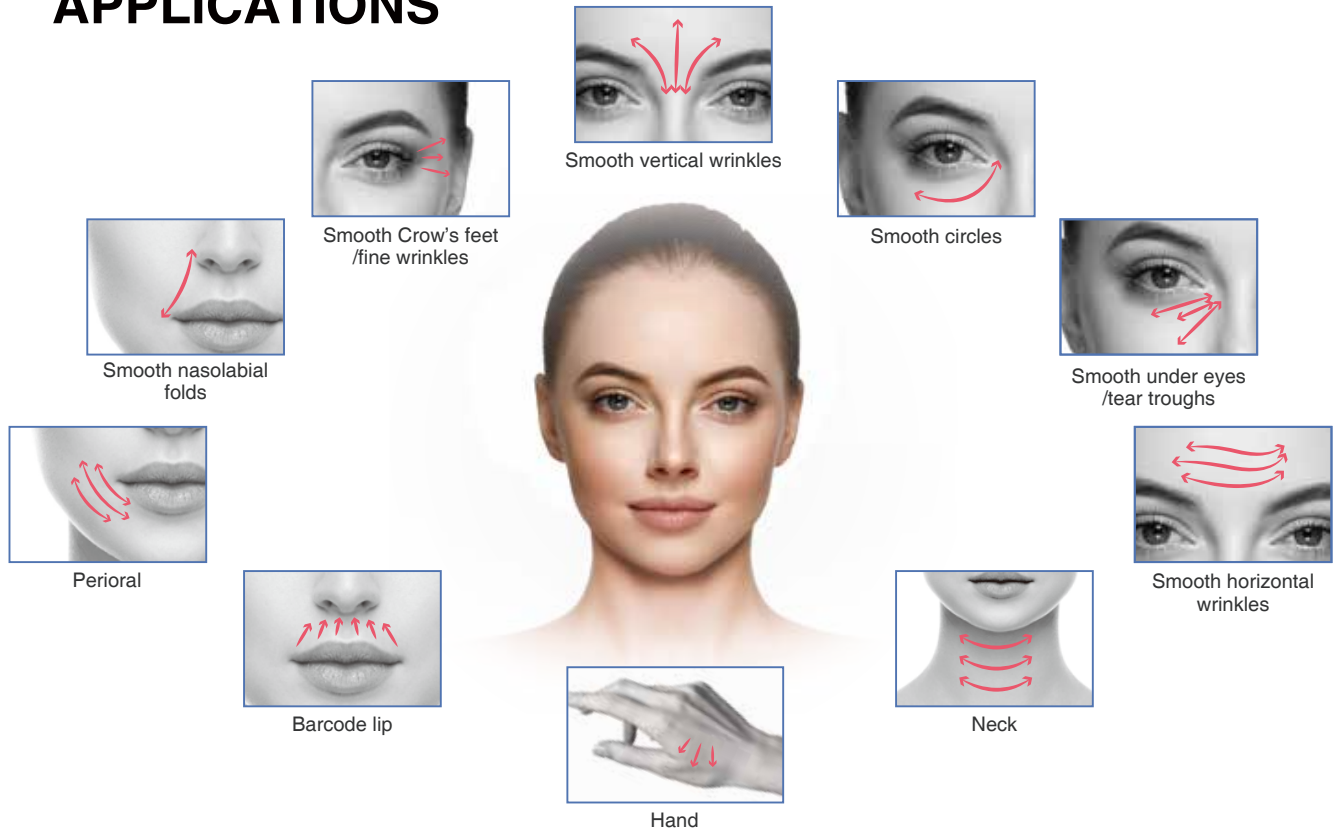
KEY FEATURES

- Dynamic and Functional Filling.
- Functional and Dynamic characteristics of CG Dimono^{PTX} make it **specific and selective** for the treatment of facial wrinkles in the face that are both static and dynamic in nature.
- Reconstructive Filling, Relaxing, and Skin Boosting effects by the combination of HA and Peptide complex.
- High adaptability, no pumping or swelling.

TREATMENT

- 1 session for every 2~3 months (Recommend 4~5 sessions/year)
- Linear Intra-Dermal Injection

APPLICATIONS



GENERAL PROTOCOLS

Treatment site and treatment method

1. Put anesthetic cream to the target areas before injection
2. Injection technic: liner intradermal
3. Injection volume: various in subject conditions
 - Entire forehead: 1~2ml
 - Nasolabial folds: 0.5~2ml
 - Periorbital: 0.5~1ml
 - Peri oral: 0.5~1ml
 - Lip, Neck, and Chest: 0.5~2ml
4. After injection, put on cold facial mask for 10~20min



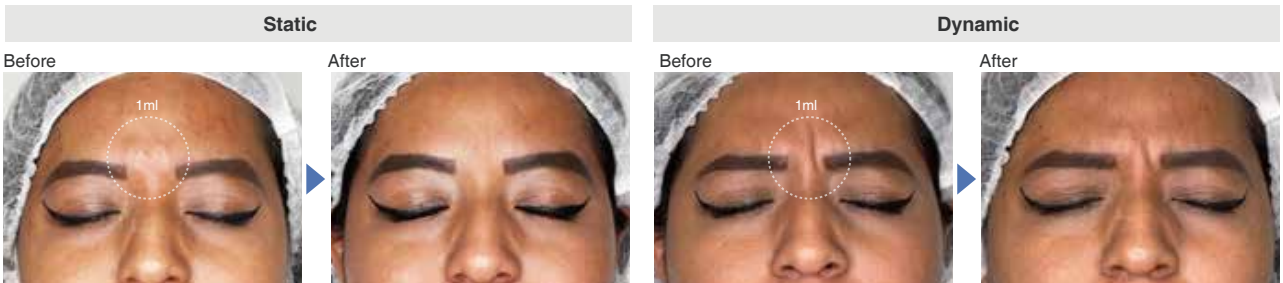
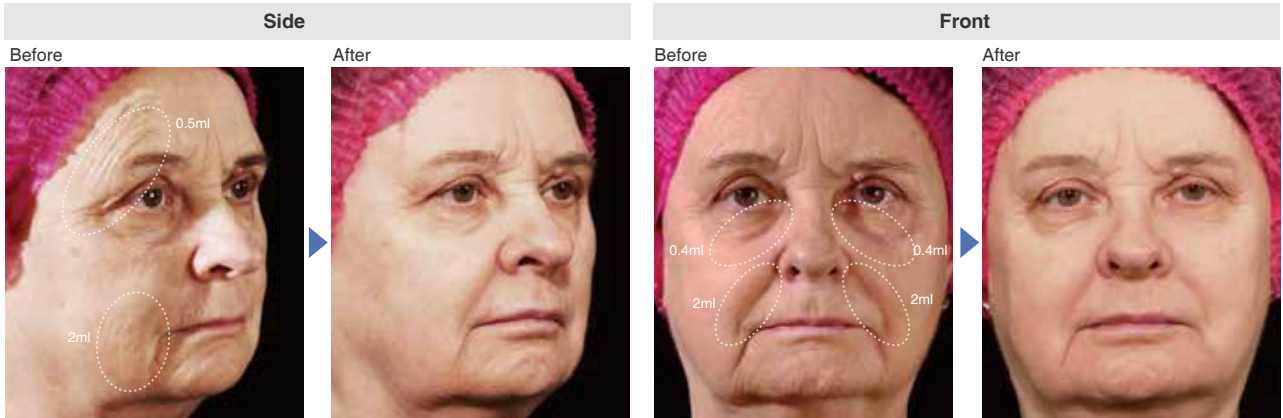
Forehead Lines

Tear Troughs

Nasolabial Folds

CLINICAL TEST RESULTS

■ FACE (WRINKLES & SKIN BOOSTING)



■ FOREHEAD WRINKLES

CASE 1



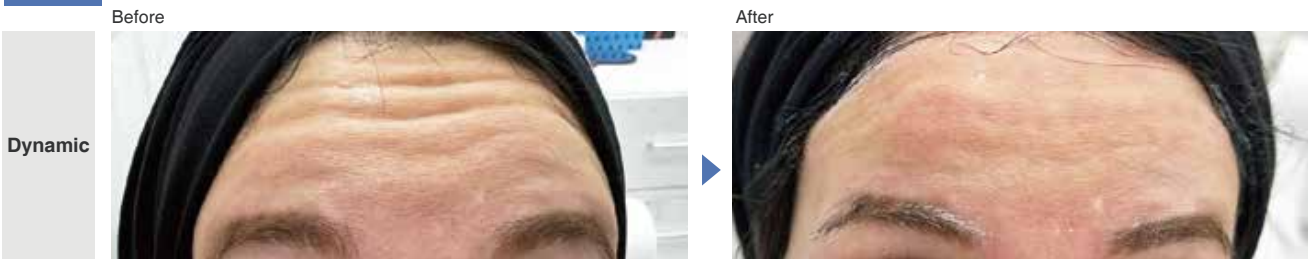
CASE 2



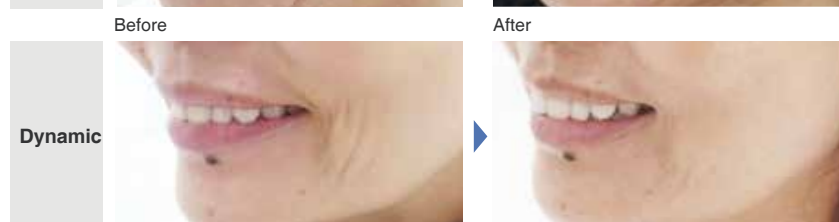
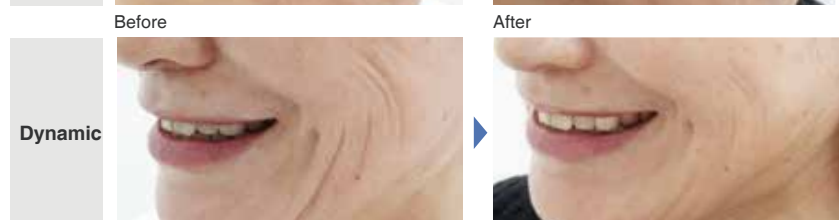
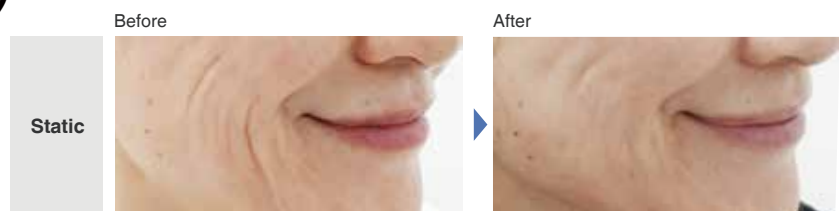
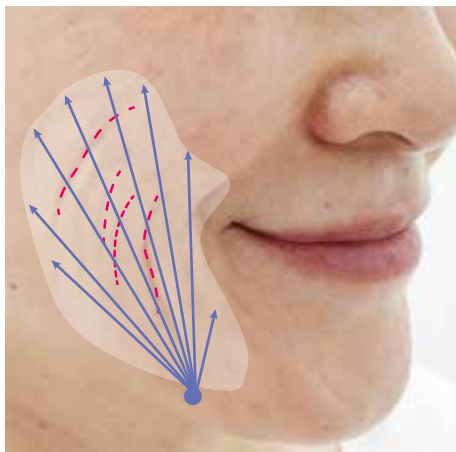
CASE 3



CASE 4

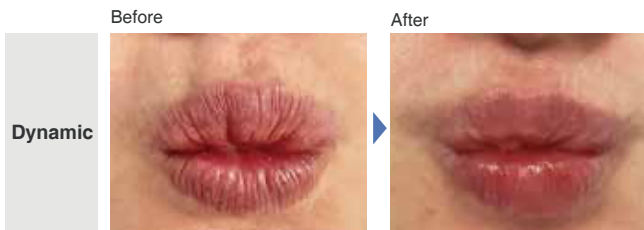


■ FACE (PERI-ORAL)

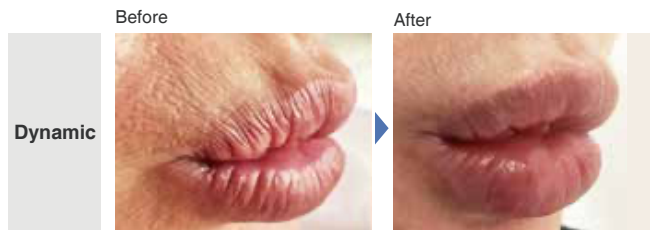


■ LIPS AND BARCODE LIPS

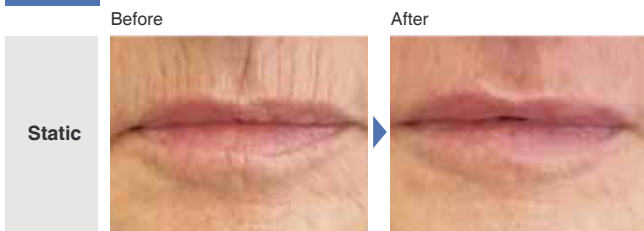
CASE 1



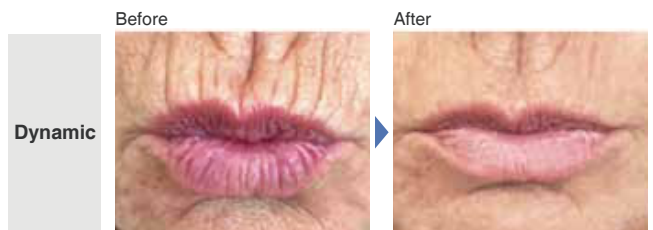
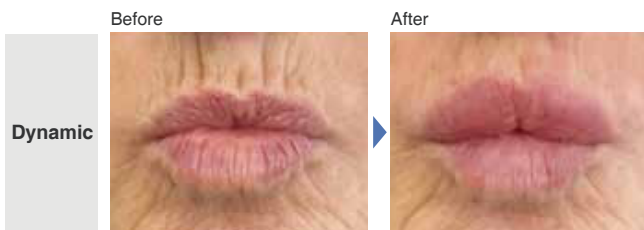
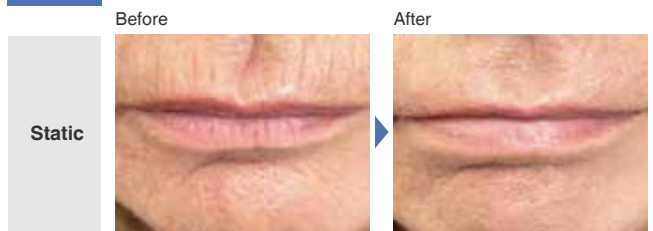
CASE 2



CASE 3



CASE 4



■ WRINKLES ON NECK

CASE 1



■ HANDS REJUVENATION

CASE 1

Before



immediately



Before



immediately



Before



immediately



Before



After(10 Day)



CASE 2

Before



After(2 Week)



CASE 3

Before



After(2 Month)



CG **DiMONO**^{PTx}

Discover CG-Dimono PTx:
Experience the future of treatment today



Dermaheal Ultimatum PTx

- Anti-Aging
- Anti-Acne
- Trouble Skin Care
- Body Contouring

Needle free
First Botulinum Toxin type C Peptide

“Revolution”
beyond
Innovation

PTX

PTx is the world's **First Botulinum Toxin type C** peptide developed by Caregen's noble peptide technology and exclusive transdermal delivery system. PTx can be used for a variety of indications, like Botulinum toxin type A, but the difference is that PTx does not require injections and delivers efficient, fast and safe results

DEARMAHEAL ULTIMATUM PTX SERIES

	Application	Product Topical
Anti-Aging	<ul style="list-style-type: none"> • Anti-Wrinkle • Lifting 	PTx Serum 15ml/50ml PTx Cream 15ml/50ml PTx Face Filler Mask 25g*5ea/set 
	<ul style="list-style-type: none"> • Chemical peeling 	PTx Aqua Peel 15ml 
Anti-Acne	<ul style="list-style-type: none"> • Sebum control 	PTx DeAkni Corretor 15ml PTx DeAkni Mist 100ml 
Trouble Skin Care	<ul style="list-style-type: none"> • Anti-Atopic Dermatitis • Skin Redness 	PTx Ato Clear Serum 30 ml PTx Ato Clear Cream 100/200 ml PTx Skin Redness Serum 30ml 
Body Contouring	<ul style="list-style-type: none"> • Lipolysis 	PTx Lipo Serum 40ml 

More than 100 applications available!

CG-PTx

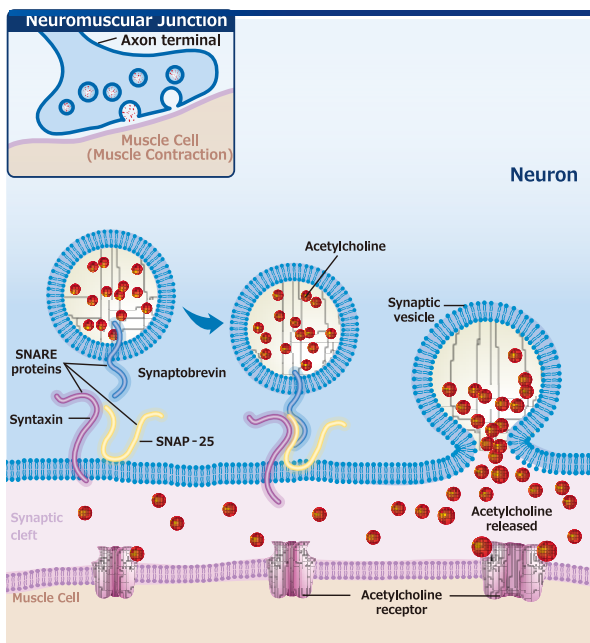
KEY FEATURES OF CG-PTx



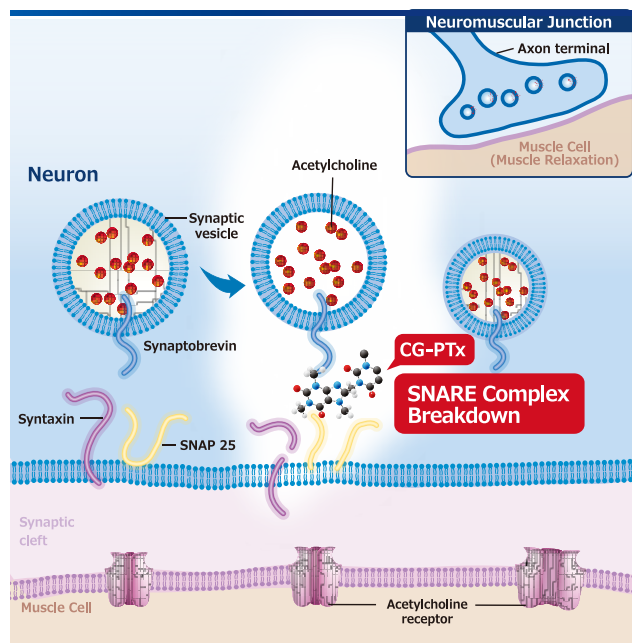
ACTION MECHANISM

PTx is acting like botulinum toxin type C which cleaves syntaxin and SNAP-25 in nerve cells.

▶ Normal Neuro Transmitter Release



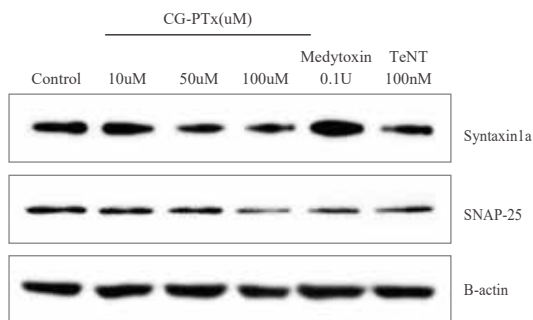
▶ Muscle Relaxation



Superiority of PTx Peptide

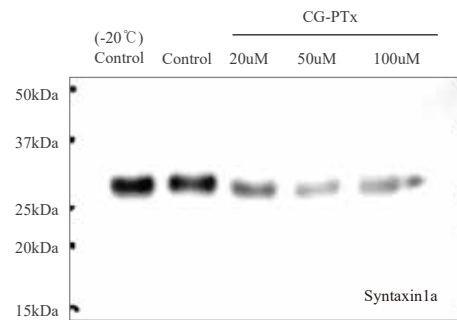
1 Cleavage Test on Syntaxin 1a and SNAP-25

(a) Cell: Human Bone Marrow Neuroblastoma(SH-sy5y)
 Sample: Cell Harvest → **Total Protein Isolation**
 Reaction Time: 4hours
 Analysis: Western blot analysis



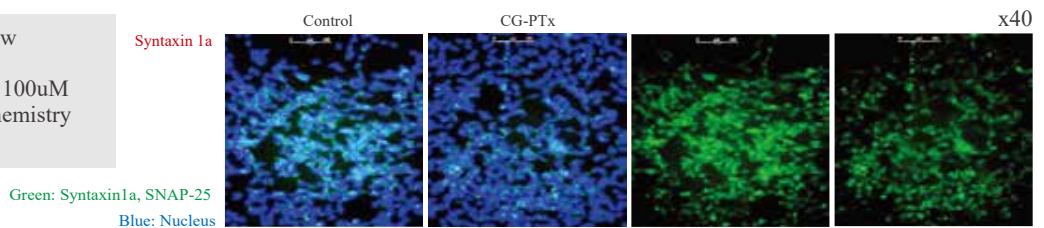
CG-PTx enzymatically cleaved Syntaxin-1a and SNAP-25 in nerve cells.

(b) Sample: Recombinant Syntaxin 1a, CG-PTx
 Reaction Condition: 4hours at 37°C
 Analysis: Western blot analysis (Anti-Syntaxin 1a)



CG-PTx enzymatically cleaved Syntaxin 1a in cell free system.

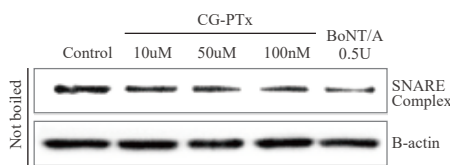
(c) Cell: Human Bone Marrow Neuroblastoma
 Treatment concentration: 100uM
 Analysis: Immuno cytochemistry (Anti-Syntaxin 1a)



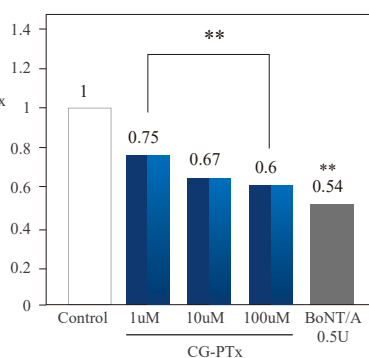
Green: Syntaxin1a, SNAP-25
 Blue: Nucleus

2 Inhibition of SNARE Complex

(a) Cell: Human Bone Marrow Neuroblastoma (SH-sy5y)
 Treatment condition: Treat 24hr in serum-free DMEM
 Peptide concentration: 10, 50, 100uM / BoNT/A 0.05, 0.5U
 Analysis: Western blot

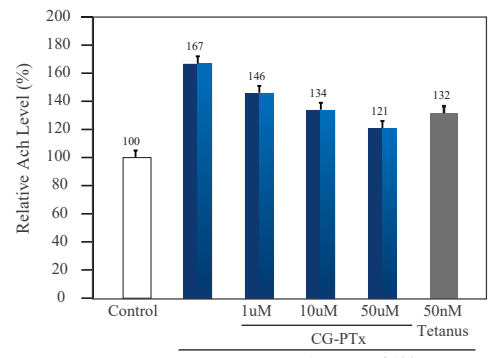


The formation of SNARE Complex (Syntaxin, SNAP-25, VAMP protein), a key mechanism for acetylcholine release was **reduced by CG-PTx**

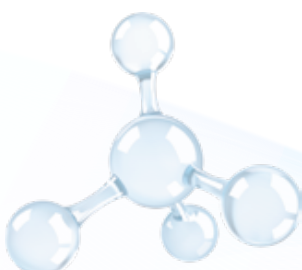


3 Inhibition of Acetylcholine Release

(b) Cell: Human Bone Marrow Neuroblastoma(SH-sy5y) passage 11
 Culture condition: Serum free DMEM for 48hrs
 Induction: NIC(Nicotine)+KCl(Potassium chloride) /30min
 Analysis: Choline/Acetylcholine assay Kit(Fluorescence:Ex/Em)



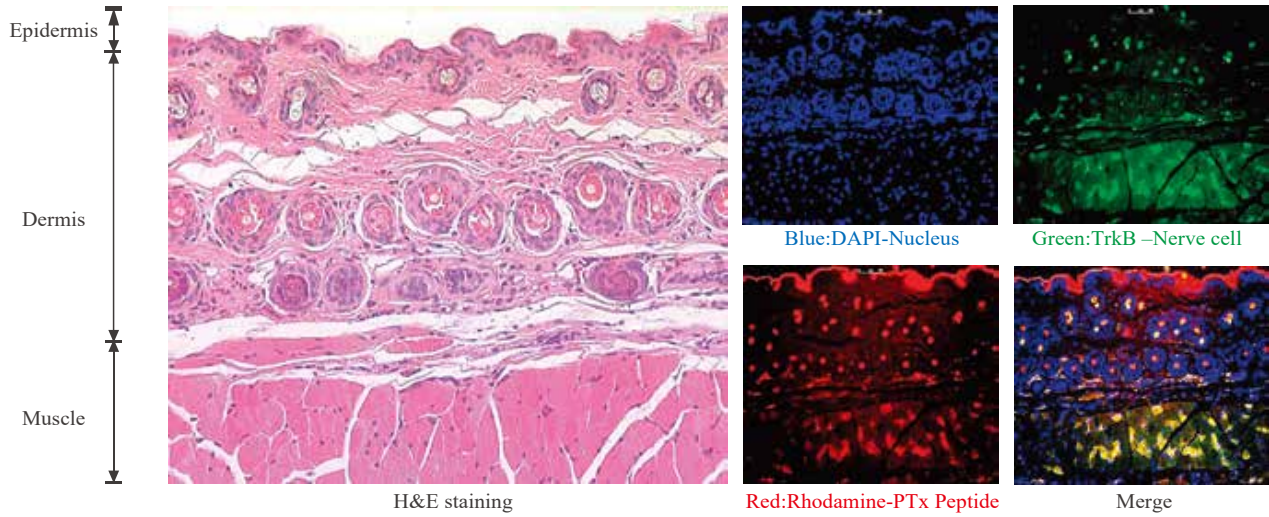
The release of Acetylcholine, a neurotransmitter, was **reduced by CG-PTx**.



First Botulinum Toxin type C Peptide
Needle Free

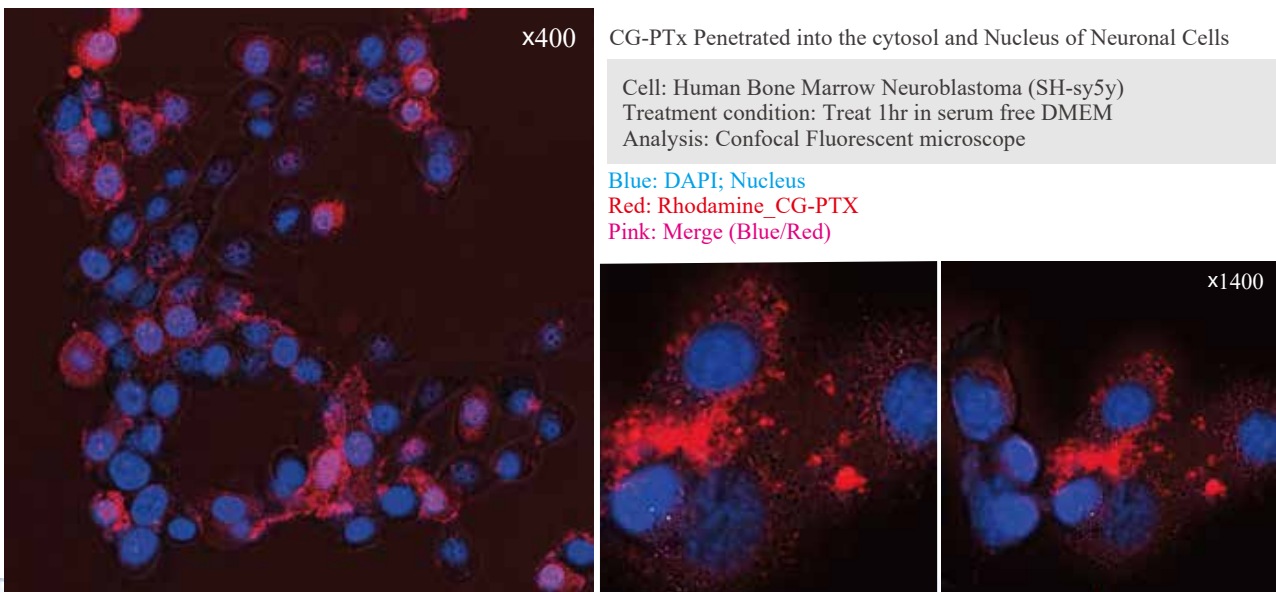
Transdermal Delivery System

1 Transdermal Delivery to the Muscle layer



Cell Membrane Penetration

1 PTx Penetration to Nerve Cell Membrane



without injection

Erase wrinkles

PTx Applications > Anti-Aging

1 Function | Anti-Wrinkle/Anti-Lifting/Chemical peeling/Pore tightening/Wound healing

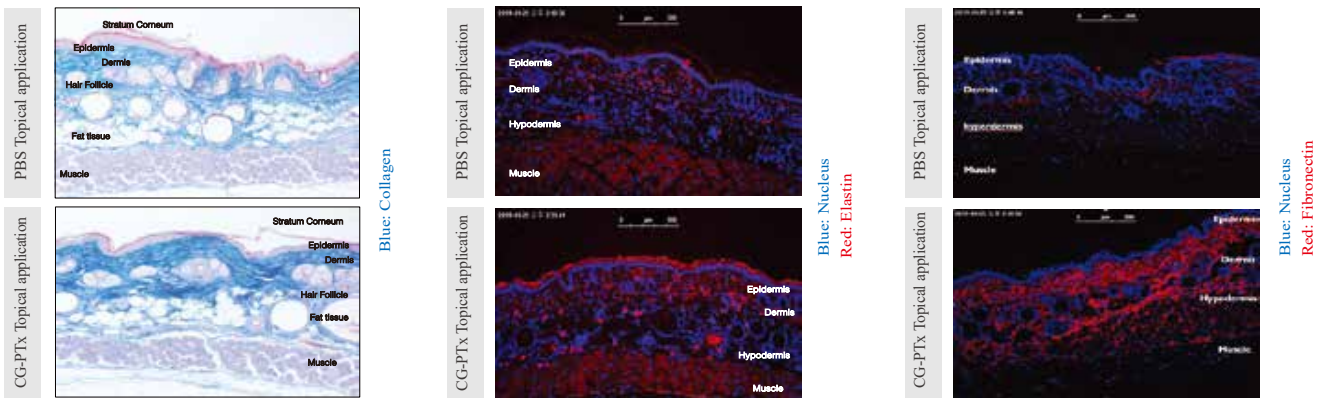


PTx Serum&Cream

Measurement	2weeks (%change)		4weeks (%change)
Sebum	-44.98	↓	-62.25
Pore	-20.83	↓	-37.37
Hydration	15.94	↑	25.02
Skin Surface Elasticity	8.38	↑	17.15
Skin Density	5.24	↑	11.19
Crow's feet	-4.84	↓	-9.30
Skin Redness	-4.78	↓	-7.43
Face Lifting	-1.83	↓	-3.61
Skin Lightening	1.28	↑	2.20

- Subject number: 23 Female subjects (Age 40~50's)
 - Measurement interval: 0, 2, 4 weeks

2 In-vitro data | Collagen / Elastin / Fibronectin Synthesis



3 Clinical study

Forehead Wrinkles



Pore Tightening



Facial Wrinkles



Before



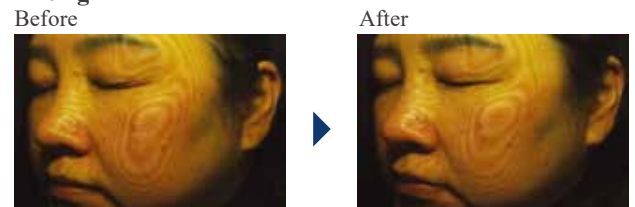
After



Neck Wrinkles



Lifting



PTx Applications > Anti-Acne

1 Function | Sebum control



PTx DeAkni Corrector 15ml

PTx DeAkni Mist 100ml

PTx Anti-Acne Serum

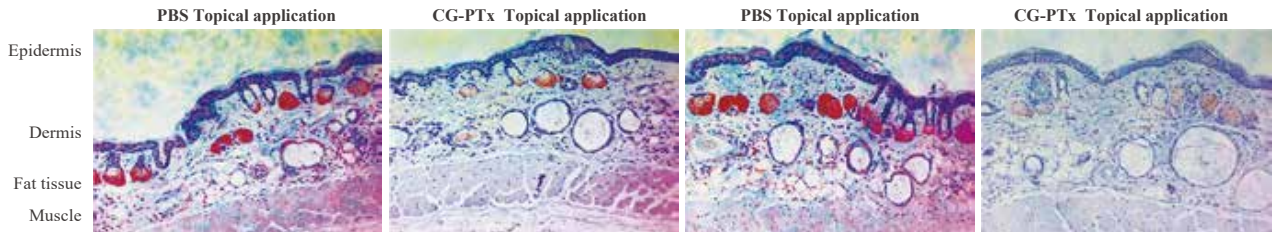
Measurement	2weeks (%change)		4weeks (%change)
Open Comedones	-28.29	↓	-58.55
Closed Comedones	-36.84	↓	-61.40
Sebum Contents	-12.47	↓	-30.74
Oil Contents	-22.53	↓	-28.09

Global Assessment of Efficacy	Improvement effect on acne – 95%
	Skin oil contents Improvement effect – 95%
	Skin Sebum Improvement effect – 95%

- Subject Number: 20 People (Male:3, Female: 17/averaged age 27.15years)
 - Measurement interval: 0, 2, 4 weeks

2 In-vitro data | Regulation of Sebum

Method: immuno histochemistry (Anti-FAS)



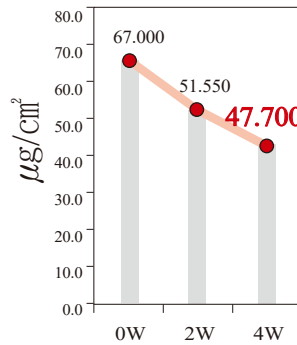
X100

3 Clinical study

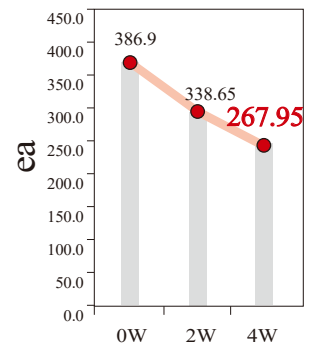
Anti-Acne



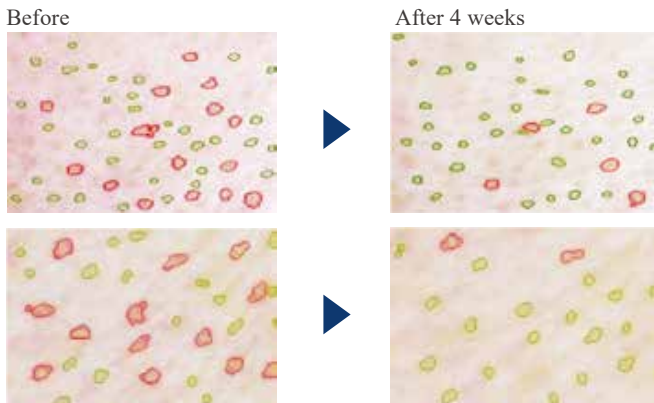
Oil Contents(Facial stage DM3)



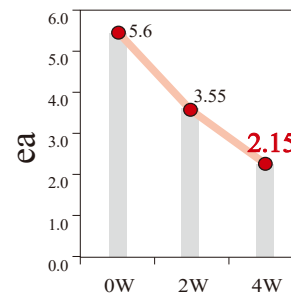
Sebum Contents(Sebumeter SM815 (ug/cm²))



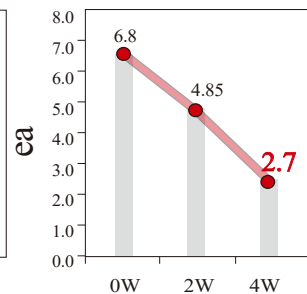
Pore & Sebum Control



Closed Comedones (Visual observation)



Open Comedones (Visual observation)



- Subject Number: 20 People(Male:3, Female: 17/averaged age 27.15years)
 - Measurement interval: 0, 2, 4 weeks

PTx Applications > Trouble Skin care

1 Function | Anti-Atopic Dermatitis/Skin Redness



- PTx Ato Clear Serum 30 ml
- PTx Ato Clear Cream 100/200 ml
- PTx Skin Redness Serum 30ml

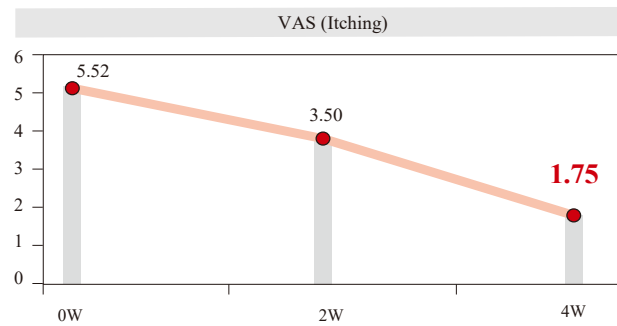
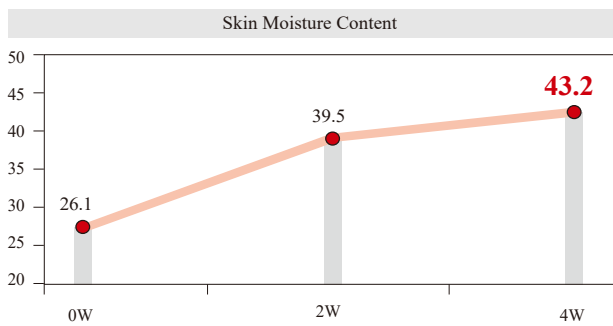
PTx Atopic Dermatitis Serum&Cream

Measurement	2weeks (%change)	4weeks (%change)
VAS (Itching)	-36.638	↓ -68.190
Skin Moisture Content	51.329	↑ 65.487
Transepidermal Water Loss (TEWL)	-8.457	↓ -14.418

- Subject Number: 21 People (Female: 21/averaged age 36.2 years)
 - Measurement interval: 0, 2, 4 weeks

2 Clinical study

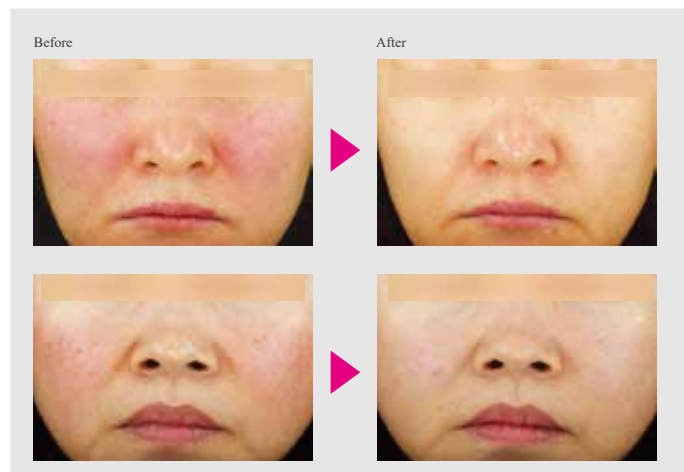
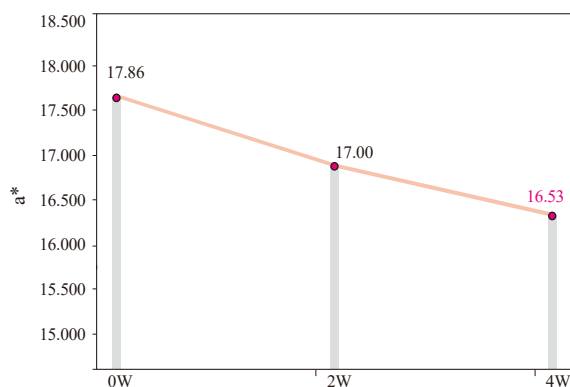
1. Anti-Atopic Dermatitis



2. Skin Redness

Instrument: Visia-CR(a*)

- Subject number: 23 Female subjects (Age 40~50's)
 - Measurement interval: 0, 2, 4 weeks



PTx Applications > Body Contouring

-Subject Number: 22 of Female(Age 20-40's)
 -Measurement interval: 0, 2, 4 weeks

1 Function | Lipolysis/Anti Stretch Mark



PTx Lipo Serum 40 ml

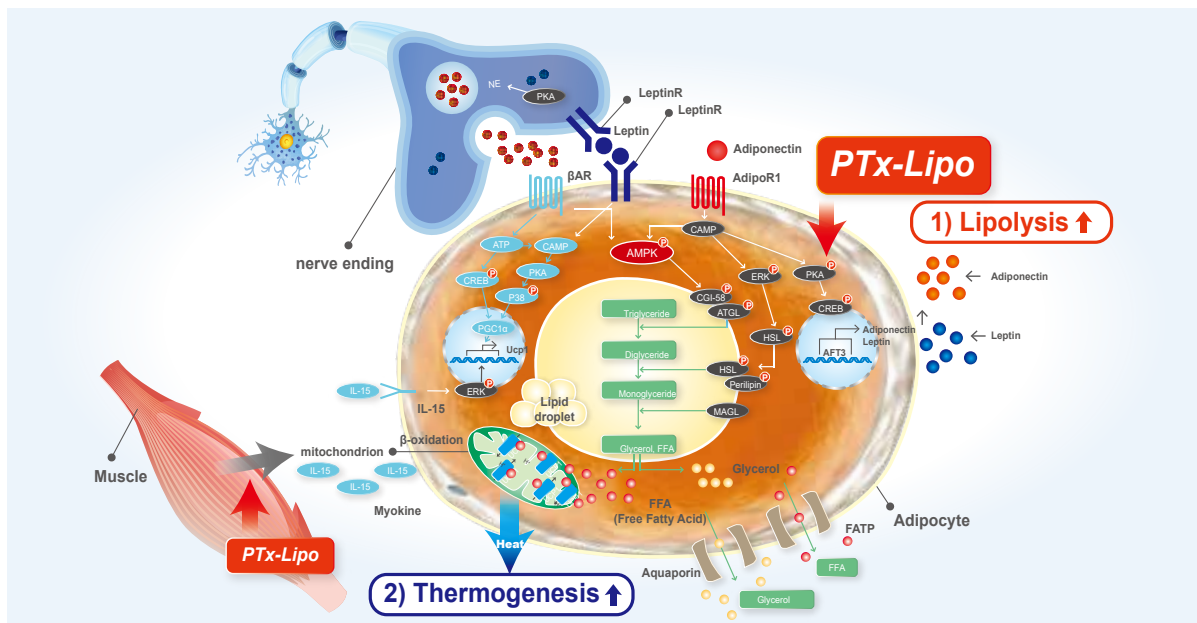
PTx Lipo Serum only

Measurement	2weeks (% change)	4weeks (% change)
Calf Thickness	-8.36	-12.21
Double Chin	-4.35	-6.94
Subcutaneous fat in the femoral region	-3.83	-6.83
Skin Roughness	-4.45	-7.35
Cellulite visual evaluation	-4.51	-8.11

PTx Lipo Serum Using Home Iontophoresis

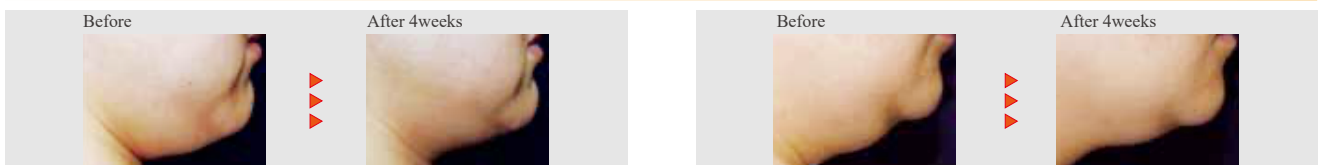
Measurement	2weeks (% change)	4weeks (% change)
Calf Thickness	-8.64	-8.74
Double Chin	-6.00	-11.00
Subcutaneous fat in the femoral region	-4.62	-8.03
Skin Roughness	-6.34	-8.51
Cellulite visual evaluation	-4.72	-9.43

2 Action mechanism

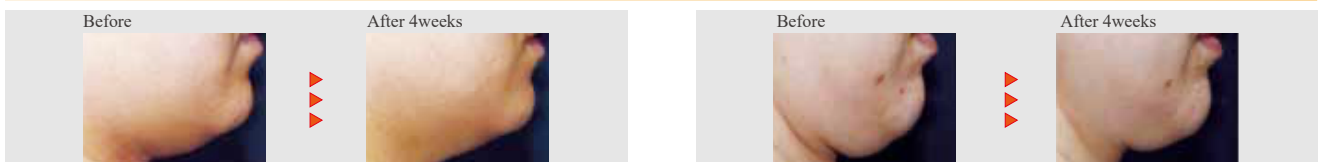


3 Clinical study

1. PTx Lipo Serum Only

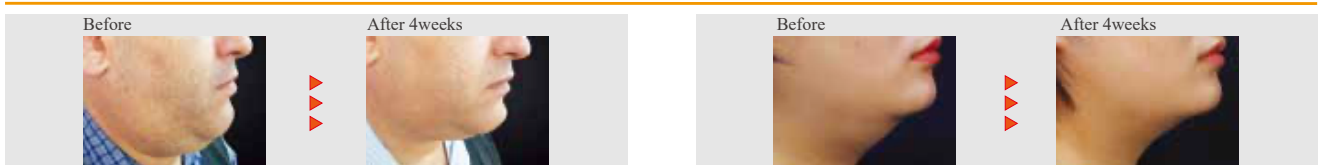


2. PTx Lipo Serum Using Home Iontophoresis (Protocol: PTx Lipo Serum 2 times for day together with Ionto Home Device)



3. PTx Lipo Serum Combined with Prostrilane Inner B [2 sessions]

(Protocol: 2 syringes of Prostrilane Inner B per every 2 weeks + PTx Lipo Serum 2 times for day)

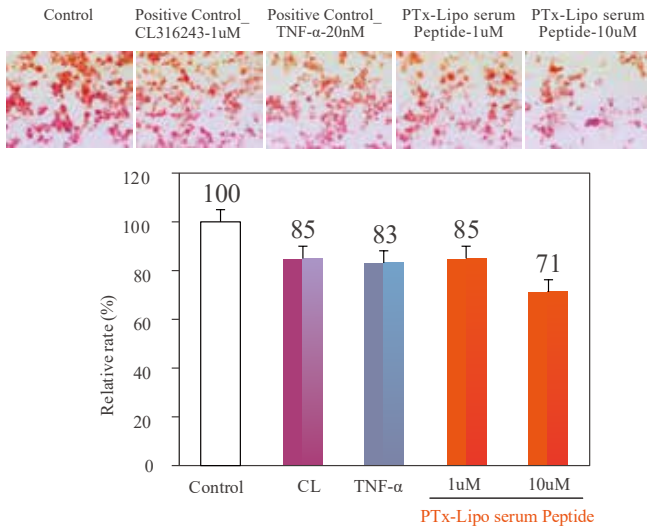


4 } In-vitro data

1. Increase lipolysis

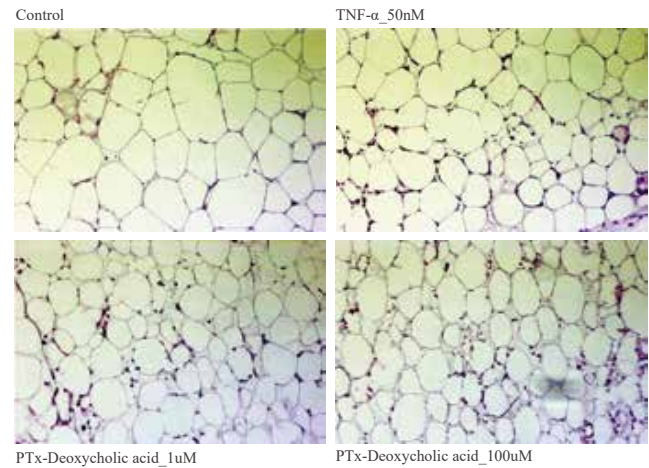
A. Lipolysis (Lipid Droplet)

Cell: 3T3-L1 preadipocyte
 Culture condition: Treatment of material for 48 hours after differentiation
 Method: Oil Red O staining
 Positive control materials: CL316243_thermogenic beta3 agonist, TNF- α



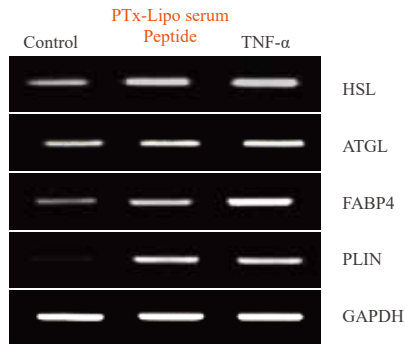
B. Adipose tissue Staining (exvivo test)

Tissue: Adipose tissue (isolated from mouse abdominal fat pad)
 Culture condition: DMEM media, 37°C, 5% CO₂ incubator
 Treatment concentration: 1,10uM Peptide,
 Positive control: 50nM human recombinant TNF- α
 Treatment time: 3days / Method: H&E staining



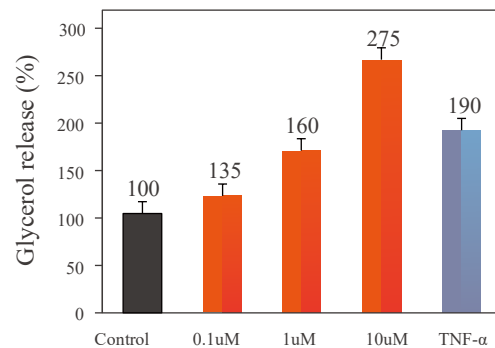
C. Lipolysis gene expression (exvivo test)

Tissue: Adipose tissue (isolated from mouse abdominal fat pad)
 Culture condition: DMEM media, 37°C, 5% CO₂ incubator
 Treatment concentration: 10uM Peptide, Positive control: 50nM human recombinant TNF- α
 Treatment time: 2days
 Method: RT-PCR analysis



D. Glycerol Release (exvivo test)

Tissue: Adipose tissue (isolated from mouse abdominal fat pad)
 Culture condition: DMEM media, 37°C, 5% CO₂ incubator
 Treatment concentration: 0.1~10uM Peptide, Positive control: 50nM human recombinant TNF- α
 Treatment time: 2days
 Method: Glycerol release

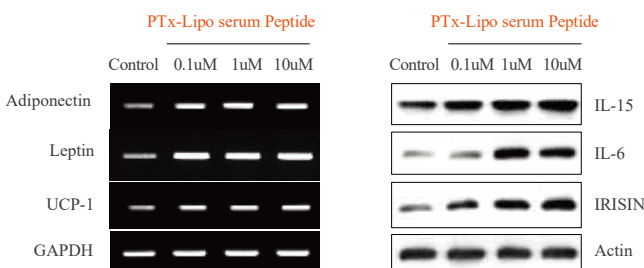


2. Increase Thermogenesis

A. Thermogenesis related gene expression

Cell: 3T3-L1 adipocyte
 Culture condition:
 Treatment of material for 24 hours after differentiation
 Method: RT-PCR analysis

Cell: C2C12 Myoblast
 Culture condition:
 Treatment of material for 24 hours after differentiation
 Method: Western blot analysis

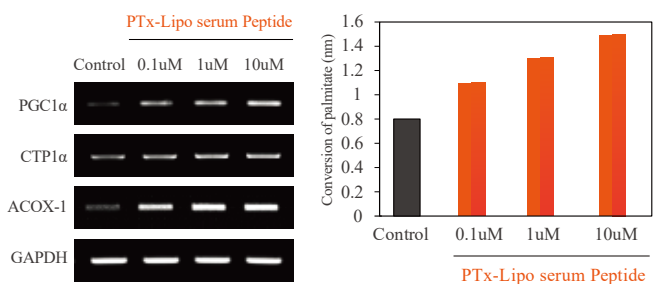


PTx-Lipo serum increased the expression of the genes involved in thermogenesis. These results suggest that PTx Lipo serum stimulates anti-obesity function by inducing thermogenesis.

B. Stimulation of Fatty Acid β -oxidation

Cell: 3T3-L1 adipocyte
 Method: RT-PCR analysis

Cell: 3T3-L1 adipocyte
 Condition: Differentiated 3T3-L1 Cells were incubated in KRH buffer (BSA1%, Palmitate, 95% O₂, 5%CO₂) for 2hrs at 37°C



PTx-Lipo serum increased the gene expression of the fatty acid oxidation in C2C12 myotube.

Fatty acid oxidation(Palmitate conversion) was observed in cells treated with CG-PTx.

CAPACTUEL

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Dermaheal Ultimatum PTX

Capactuel
MEDICAL

Preventive and Restorative Aesthetic