

Unlock the Secret of Anti-Aging
Instant Wrinkle Removing in 3 Minutes

GDActive Conopeptide

INCI: ARGININE/LYSINE POLYPEPTIDE, WATER, PENTYLENE GLYCOL,
1,2-HEXANEDIOL, ETHYLHEXYLGLYCERIN



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New Trends in the Beauty Market

Consumption Upgrade Driven by Self-Care

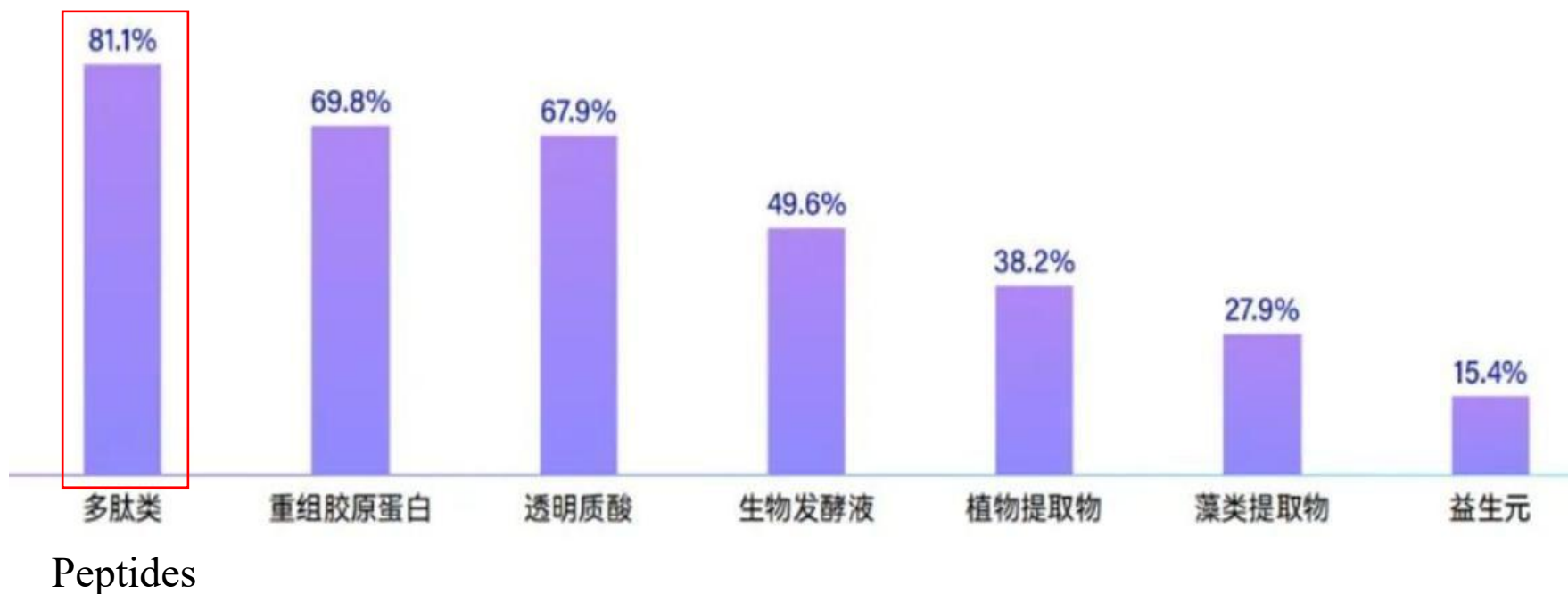
Women's beauty spending rises: demands shift from instant gratification to long-term value. This Maslow-inspired upgrade toward self-actualization comes as the beauty economy grows, with consumers focusing more on personal appearance.



"Me-centric" consumption is reshaping the skincare market. Modern consumers focus not only on outer beauty, but also on building inner confidence, empowered by advanced skincare technologies. The deeper the self-care, the smoother the skin.

Trendsetter or Follower?

Per QY Research: H1 2024 China anti-aging cosmetics sales reached RMB 190.77B (+31.2% YoY), taking 40.1% of the whole market. 54.3% of sales came from online channels.

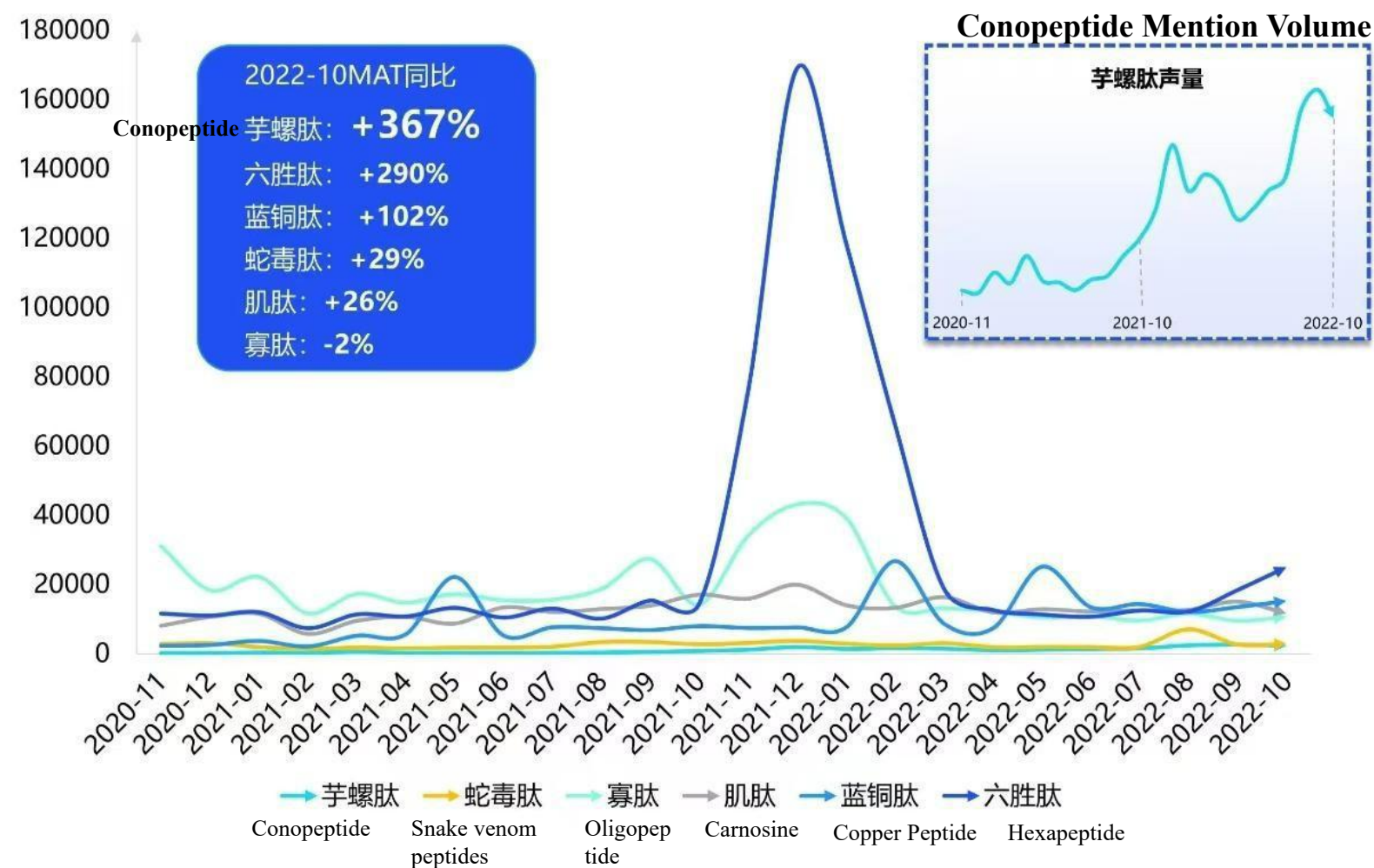


Source: Julei Analytics & Jichu Yanjiu Skincare Survey, Apr 2023, N=3729

Peptides are the most trusted, science-backed ingredients among consumers.

Peptide Trend Among Social Media Users

User tracking data: conopeptide social mentions have surged in 2 years. Though its total volume ranks lowest among six tracked peptides, YoY growth hit an impressive 367% for the 12 months to Oct 2022.



Conopeptide

Conopeptide — A Bioactive Treasure from the Ocean

01 Source & Composition

Conopeptides are complex peptide mixtures secreted by cone snails inhabiting tropical and subtropical marine environments.

02 Species & Diversity

Around 800 cone snail species produce conopeptides; each contains thousands of structurally distinct small peptides.

03 Superfamily Classification

Conopeptides are grouped into over 20 superfamilies (A, M, O, P, S, T, etc.), demonstrating great structural diversity.

04 Pharmacological Family Classification

By pharmacological targets, they are further categorized into α , μ , ω , κ families, acting on different receptors and ion channels.



Properties of Conopeptide

Advantages of New-Generation Stereostructured Peptides

01

Recombinant Construction & Expression

Produced via recombinant technology to guarantee high purity and bioactivity.

02

Immediate & Long-lasting Effect

Visible effect within 3 mins after application, lasting up to 24 hours.

03

Small Molecule & High Skin Penetration

Small peptide consisting of 16 amino acids, with strong penetration for easy skin absorption.

04

Triple-fold Stable Structure

Unique triple-folded cyclic structure that enhances peptide stability and bioactivity.

Facial Expressions

—A Key Cause of Wrinkle Formation

Facial expressions are essential for daily communication.

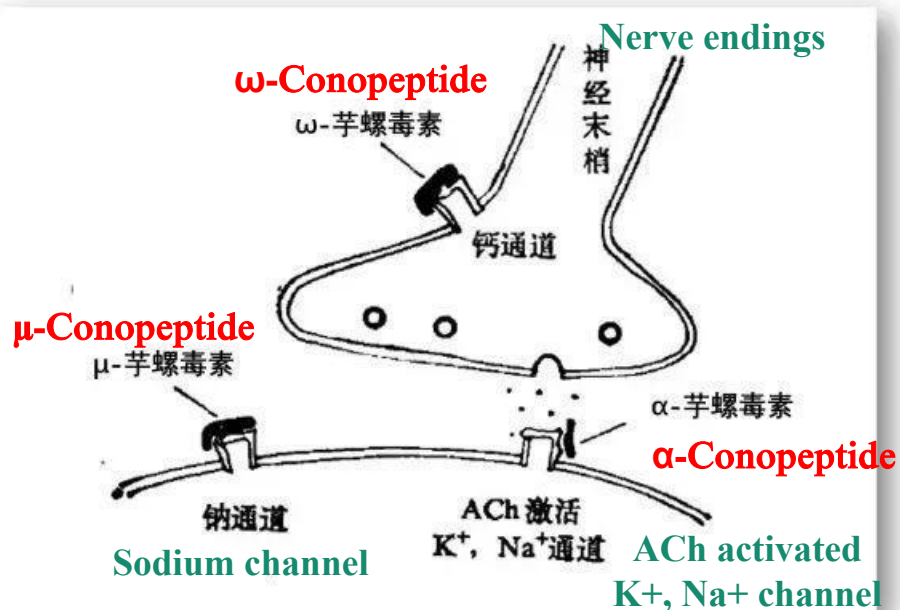
They shift constantly with every spoken word, every blink, or subtle lift of the brows. Even before we notice, facial muscles are activated.

Repeated stretching and relaxing of the skin by these muscles leads to smile lines, pore aging and wrinkles.

Over time, skin loses elasticity, forming dynamic wrinkles that deepen with age and eventually turn into static wrinkles.



Mechanism--Relaxing Muscles

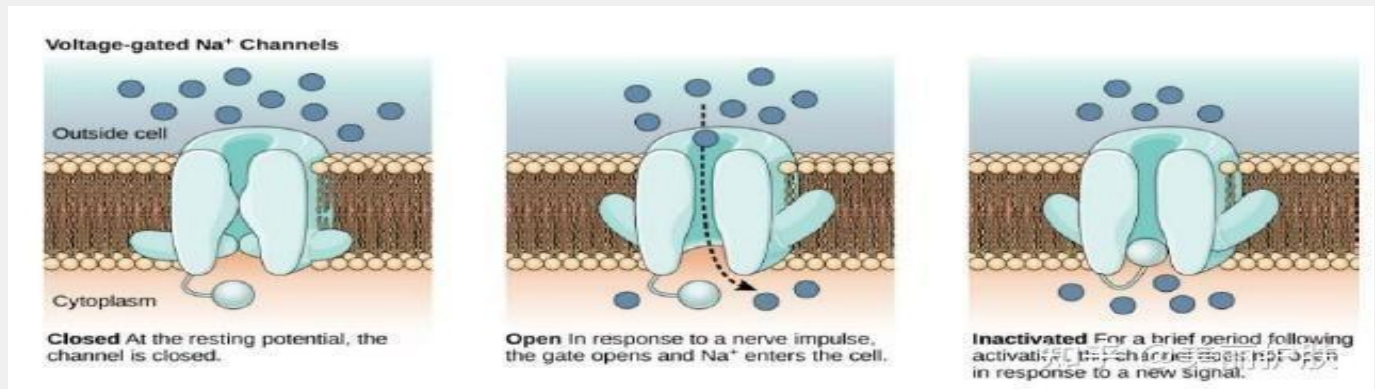


- Conopeptide is a **biosynthetic peptide** simulated from cone snail toxin, the smallest known nucleic acid-encoded animal neurotoxic peptide.
- It has relatively low molecular weight and high selectivity for voltage-gated channels. As a **calcium channel modulator**, it sustainably blocks voltage-gated calcium channels to regulate skeletal muscle activity for fast muscle relaxation and anti-wrinkle effects.
- Via steric & electrostatic effects of its disulfide backbone, it selectively inhibits voltage-gated **calcium channels**, lowering action potential generation and nerve electrical signal transmission.

Blocking rate of Conopeptide > 90%

It retains partial neuromuscular signal transmission.

This prevents facial paralysis and avoids overly tight or stiff skin, delivering natural anti-wrinkle results.



Key Benefits

- Fast-acting & long-lasting efficacy
- Visibly reduced wrinkles
- Instant, powerful anti-wrinkle performance
- Effects comparable to topical botox alternatives



Product Properties

Benefits of Solution Form

Ready-to-use:

Conopeptide solution is **directly applicable**, no reconstitution or dilution, saving time & simplifying handling.

Consistent Concentration:

The solution is precisely pre-formulated to ensure consistent concentration with every use, minimizing application errors.

Easy Monitoring:

Convenient for routine inspection and bioactivity control.

GDActive Conopeptide-L



Concentration: 1000 ppm

GDActive Conopeptide-P



Purity: $\geq 95\%$

Benefits of Lyophilized Powder

Long-term Stability:

Lyophilized powder features high stability at ambient & low temperatures. Bioactivity preserved for months to years.

Easy Transportation:

Powder form ideal for long-distance shipment, stable against temperature fluctuations.

Flexible Solvent Selection:

Lyophilized powder reconstitutable with diverse solvents: water, buffers, organic solvents.

Adjustable Concentration:

Final concentration easily customizable for diverse application needs.

Product Properties

GDActive Conopeptide-L

INCI:

ARGININE/LYSINE POLYPEPTIDE, WATER, PENTYLENE GLYCOL, 1,2-HEXANEDIOL, ETHYLHEXYLGLYCERIN

Trade Name	GDActive Conopeptide-L
Appearance	Transparent or light yellow liquid
Odor	Odorless
pH	7.5-8.5
HPLC Purity	≥95.0%
Concentration	1.000±0.0100 g/L
Content	1.000±0.0100 g
Total Aerobic Microbial Count	≤500 CFU/mL



Product Properties

GDActive Conopeptide-P

INCI:

ARGININE/LYSINE POLYPEPTIDE

Trade Name	GDActive Conopeptide-P
Appearance	White or light yellow powder
Odor	Odorless
pH	7.5–8.5
HPLC Purity	≥95.0%
Mannitol	10 mg/g



Internal Test

Formula: eye cream, essence, face cream...



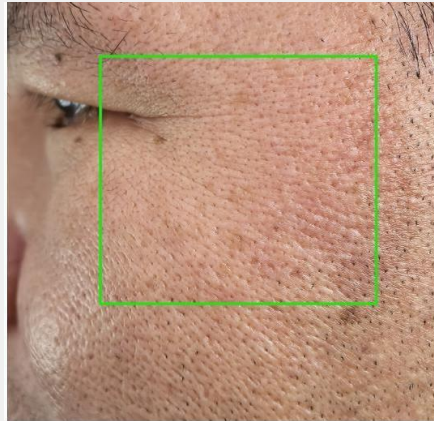
Application in Eye Cream

Formula: 1% GDActive Conopeptide-L , at 10 ppm

- Applied to periorbital area of volunteers (25–45 years old, with fine lines and wrinkles around eyes)
- Single application. Wrinkle improvement assessed at 3min, 5min, 10min, 30min, 1h, 2h, 20h and 24h for instant efficacy evaluation.



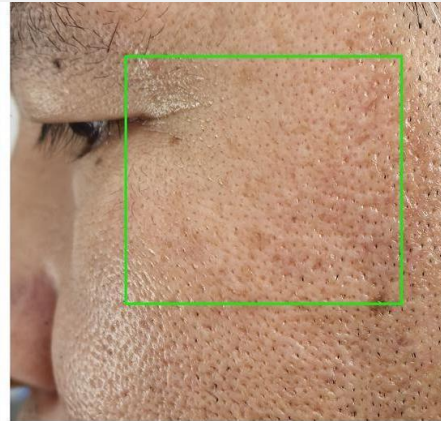
24hr Sustained Effects after Single Application of 1% GDActive Conopeptide-L



Before Use



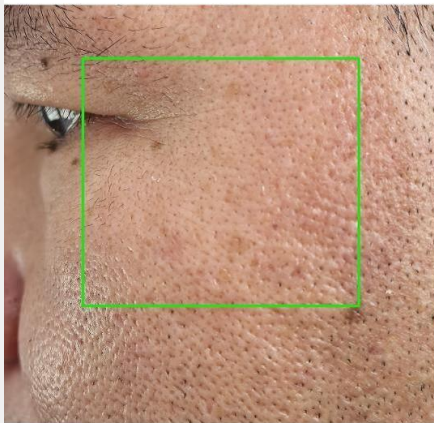
3 min



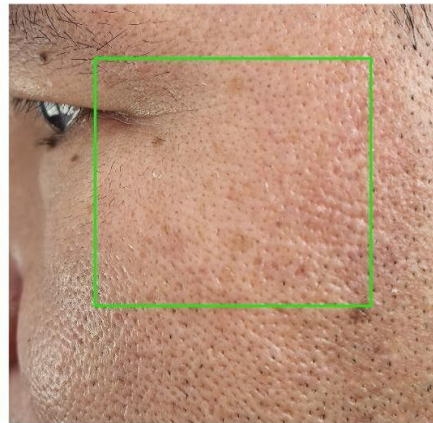
5 min



10 min



30 min



1 h



2 h



20 h



24 h

- Wrinkle length, depth & count improved in 3 mins.
- Crow's feet show sustained reduction up to 24h.

3-Min Instant Wrinkle Smoothing • High-Concentration Serum

Reference Formula XY260603-2
— 7% Conopeptide Solution

- 7% Luxurious Addition
- 3 MIN Instant Wrinkle Smoothing
- Targeted Wrinkle Reduction: Prevents muscle contraction signals to smooth dynamic wrinkles at source

- ☒ Emergency skin prep before dates & photoshoots
- ☒ Target care for expression lines, crow’s feet & forehead lines
- ☒ Daily care for mature skin seeking effective & safe anti-aging

Trade Name	INCI	Content%
Water	WATER	87.86%
Butylene Glycol	BUTYLENE GLYCOL	2.00%
PG USP	PROPYLENE GLYCOL	2.00%
Carbopol® 940	CARBOMER	0.12%
AroHydro-PHP	HYDROXYACETOPHENONE	0.30%
Arginine	ARGININE	0.12%
AroHydro-H	1,2-HEXANEDIOL	0.60%
GDActive Conopeptide-L	ARGININE/LYSINE POLYPEPTIDE, WATER, PENTYLENE GLYCOL, 1,2-HEXANEDIOL, ETHYLHEXYLGLYCERIN	7.00%
274545	PARFUM	0.005%
CO40	HYDROGENATED CASTOR OIL	0.05%

Internal Test - Employee Family Trial

Before



10 min



5% Conopeptide Solution, effect visible after 10 min

Before



3min



7% Conopeptide Solution, effect visible after 3 min

10min



Eye SPA Session • 20-Mins Eye Wrinkle Smoother

Reference Formula XY260601-1

— Conopeptide Anti-wrinkle Flash Eye Patch

- **0.5% Precise Dosage**
- **20 Mins Deep Plumping**
- **Eye-specific Formula: Eye skin is 1/3 as thick as facial skin. Optimal 0.5% dosage for mild & effective results.**

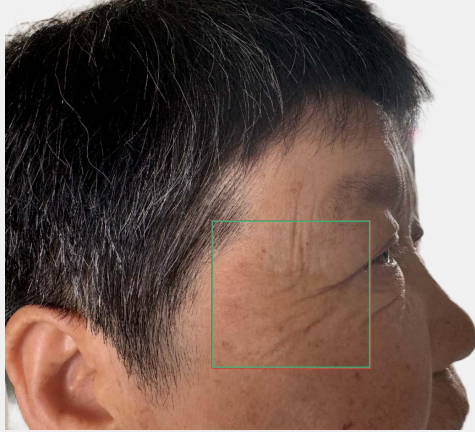
☒ **Targeted Wrinkle Reduction:** Targets dynamic wrinkles at source, not just surface.

☒ **Instant Rescue:** Pre-makeup / overnight rescue, smooth lines & avoid creasing.

Trade Name	INCI	Content%
Water	WATER	94.31
BUTYLENE GLYCOL	BUTYLENE GLYCOL	2.00
PG USP	PROPYLENE GLYCOL	2.00
Carbopol® 940	CARBOMER	0.12
AroHydro-PHP	HYDROXYACETOPHENONE	0.30
ARGININE	ARGININE	0.12
AroHydro-H	1,2-HEXANEDIOL	0.60
GDActive Conopeptide-L	WATER, ARGININE/LYSINE POLYPEPTIDE, PENTYLENE GLYCOL, 1,2-HEXANEDIOL, ETHYLHEXYLGLYCERIN	0.50
274545	PARFUM	0.005
CO40	HYDROGENATED CASTOR OIL	0.05

Internal Test - Employee Family Trial

Before

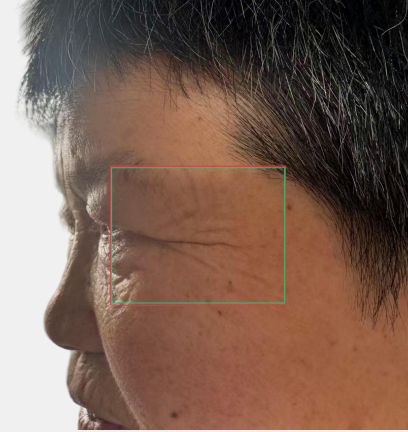


20min

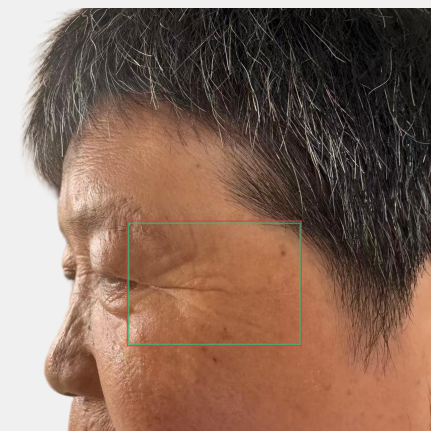


0.5% Conopeptide-L, effect visible after 20 min

Before



20min



1% Conopeptide-L, effect visible after 20 min

Anti-Wrinkle Institutional Test

Wrinkle Area Variation - Immediate Anti-Wrinkle Effect (3 min /10 min /1 h) & Long-term Anti-Wrinkle Effect (2 weeks)

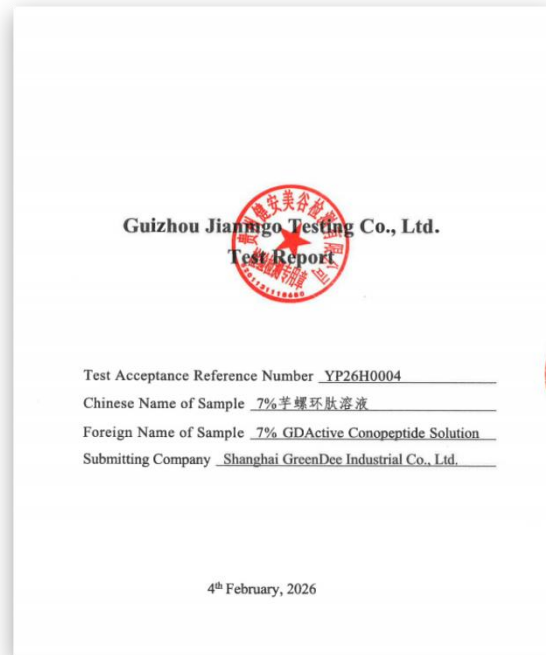
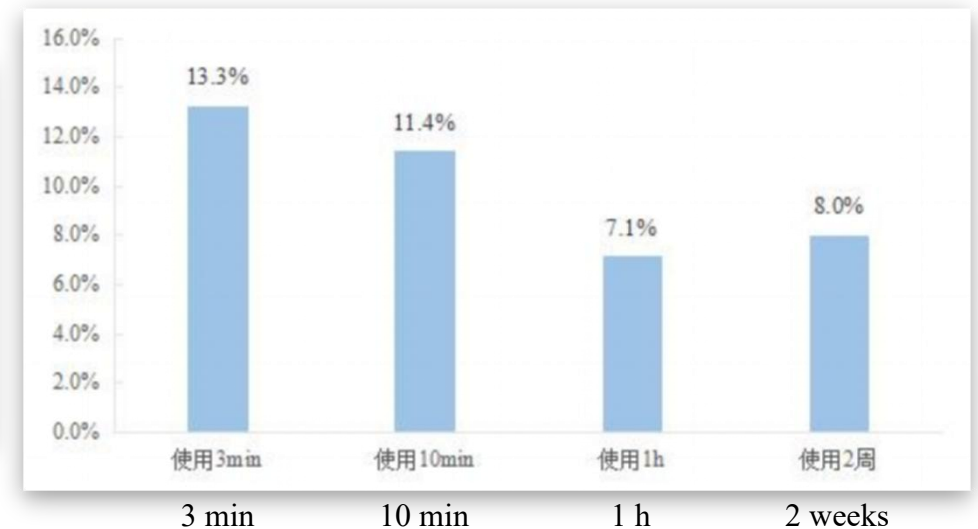


Table 1 Statistical Results of Wrinkle Area

Item	Parameter	Before	After			
			3 min	10 min	1 h	2 week
Wrinkle area	Average	68.3	59.23	60.5	63.43	62.83
	Standard Deviation (SD)	13.14	12.84	11.9	12.36	12.17

Figure 1 Improvement rate of wrinkle area



Test Results: Baseline: 68.30, 3 min: 59.23, 10 min: 60.50, 2 weeks: 62.83

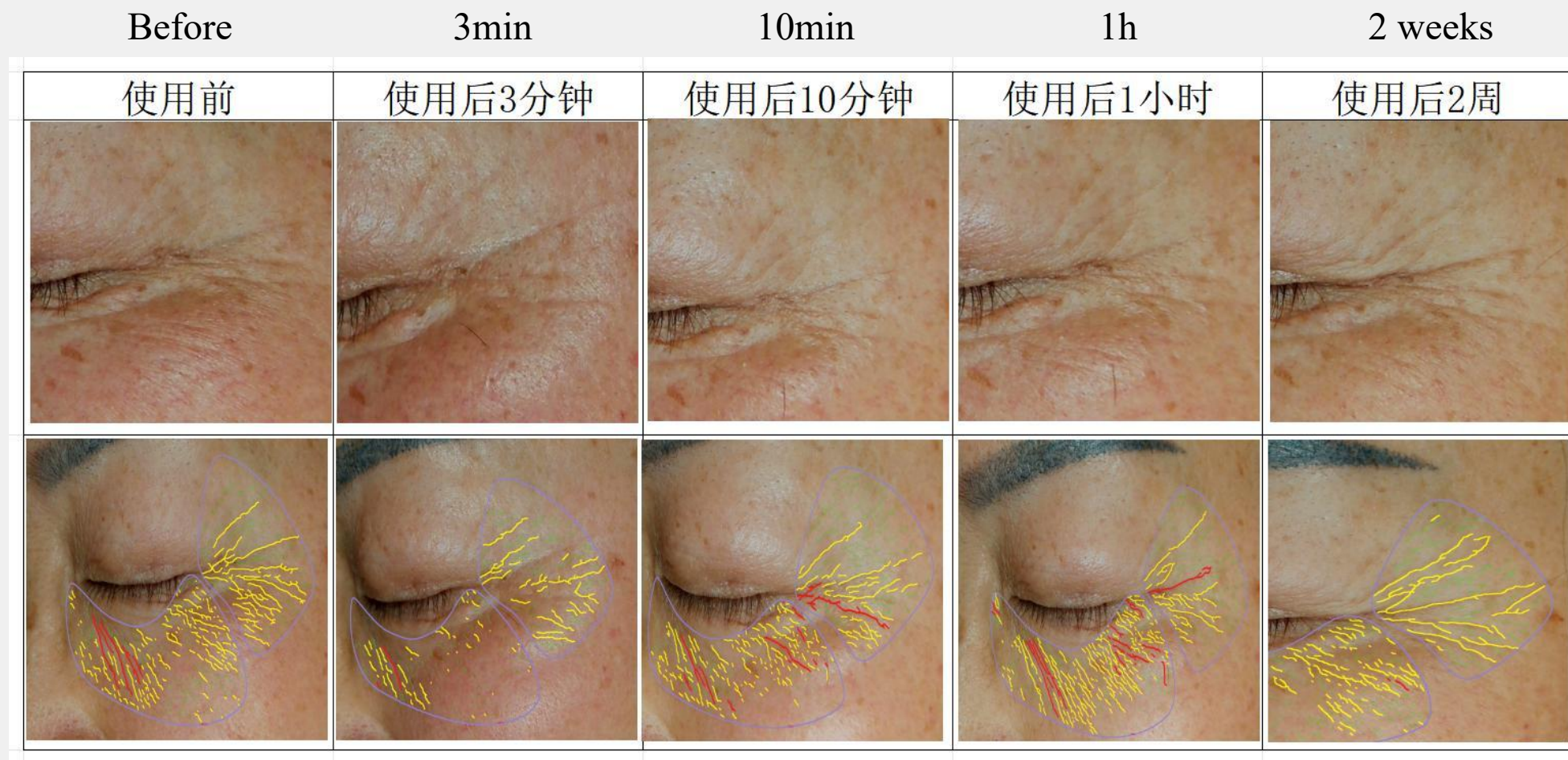
Conclusion:

Wrinkle area improved at 3 min, 10 min, 1 h and 2 weeks post application.

Notably, the wrinkle improvement at 3 min outperforms other time points, demonstrating remarkable immediate anti-wrinkle efficacy.

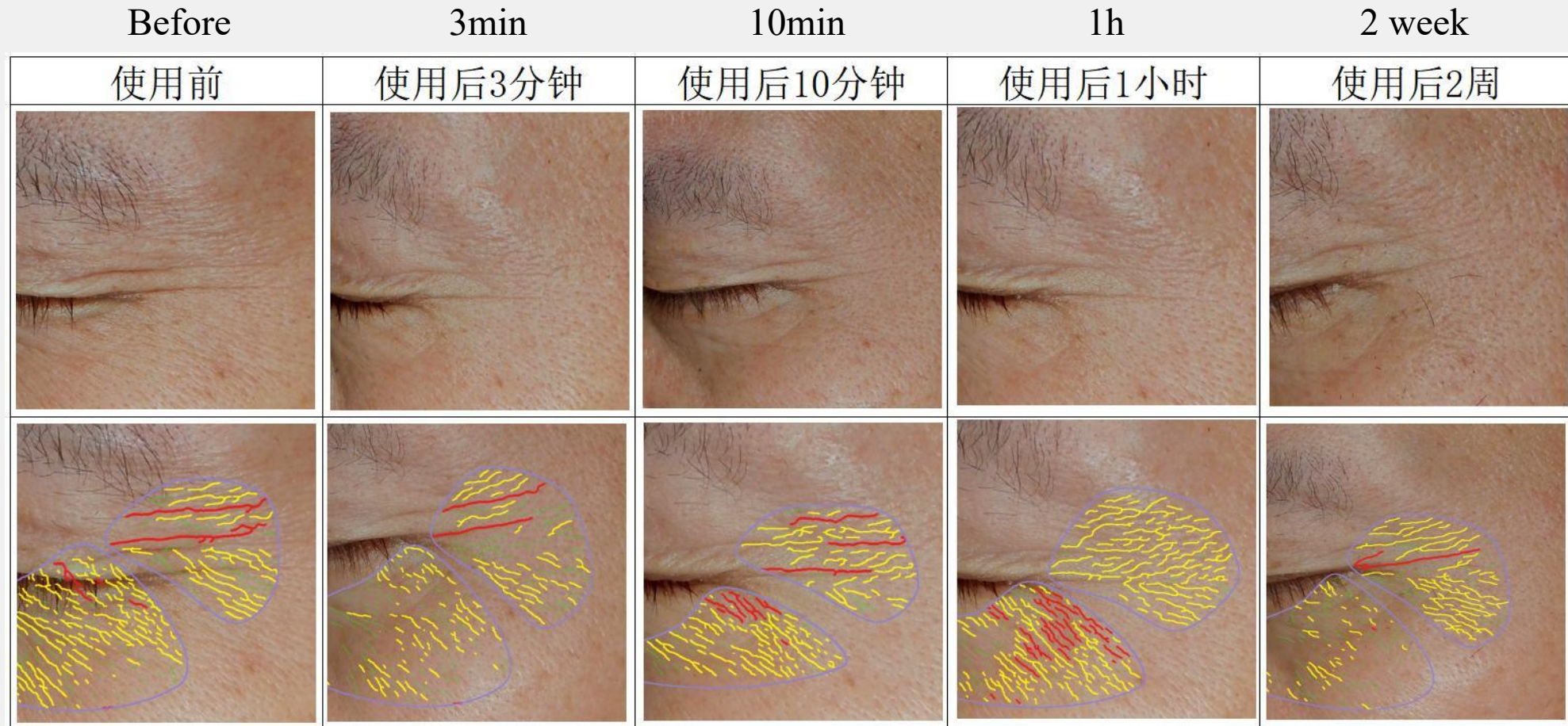
Anti-Wrinkle Effect Demonstration

Figure 1: Volunteers' Photo Comparison before and after Use (Female)



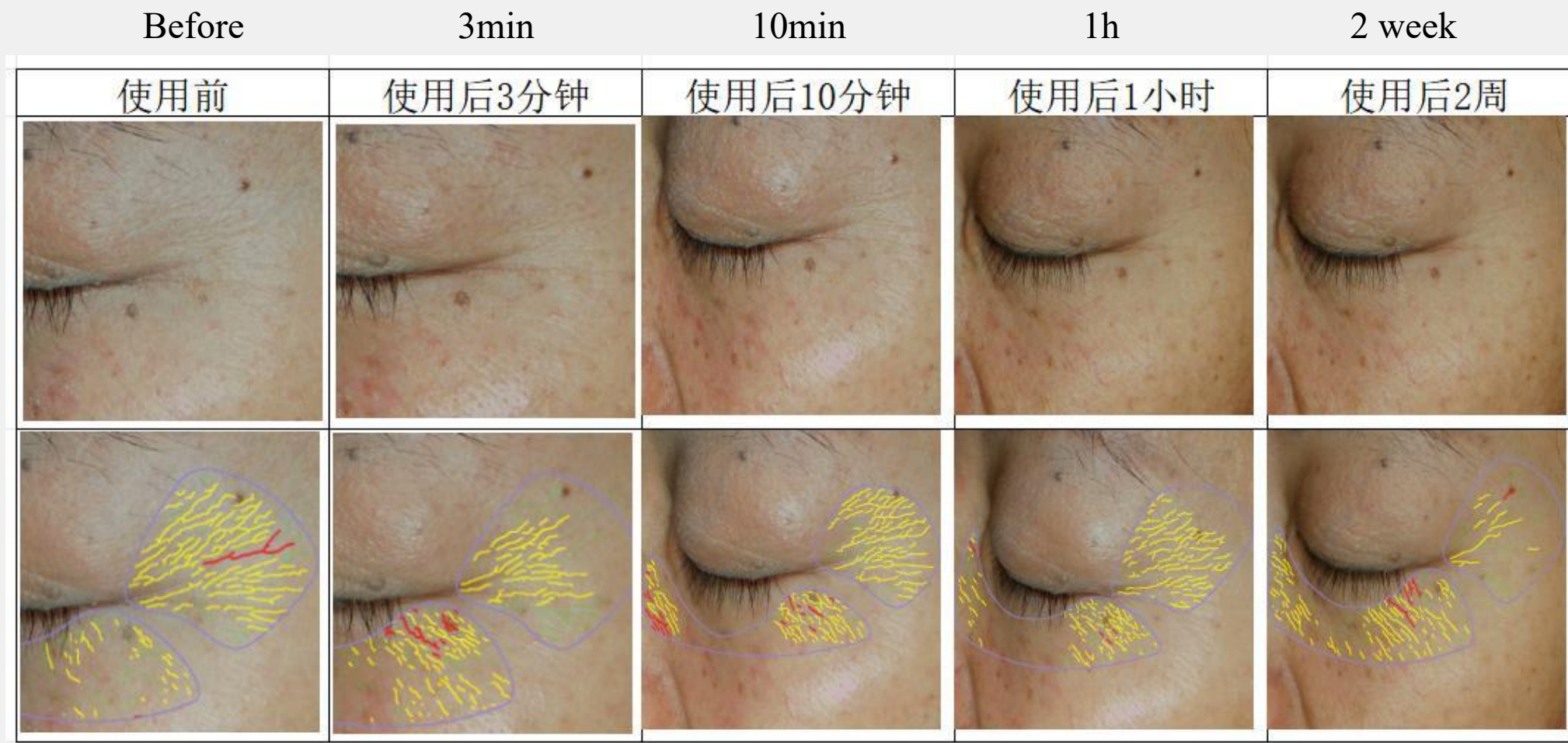
Anti-Wrinkle Effect Demonstration

Figure 2: Volunteers' Photo Comparison before and after Use (Male)



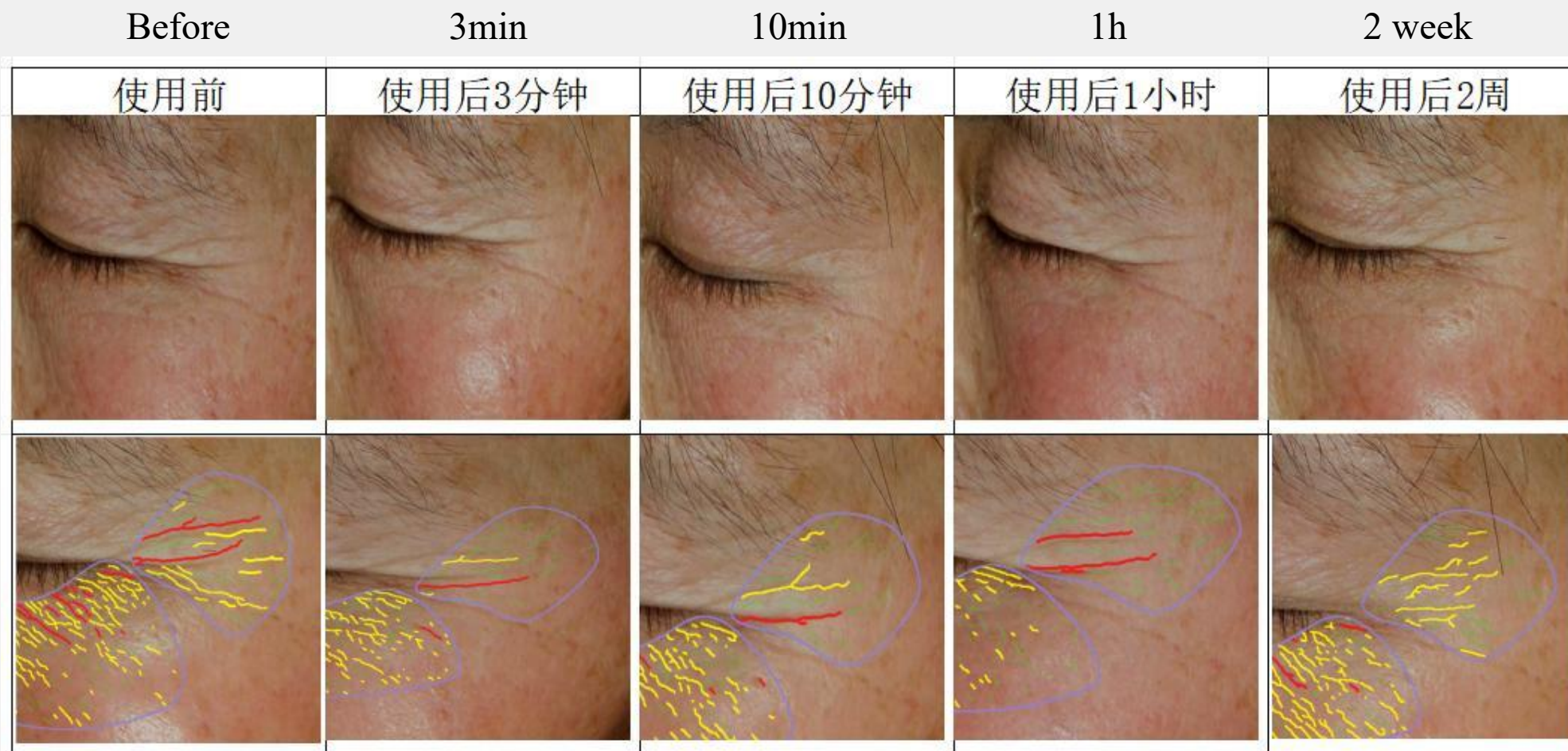
Anti-Wrinkle Effect Demonstration

Figure 3: Volunteers' Photo Comparison before and after Use (Female)



Anti-Wrinkle Effect Demonstration

Figure 4: Volunteers' Photo Comparison before and after Use (Female)



Test Results

3. Conclusions

- (1) After using the test product, the improvement in skin wrinkle area was significantly better than before use at each follow-up time point ($p < 0.05$).
- (2) After using the test product, the improvement in visual evaluation grade was significantly better than before use at each follow-up time point ($p < 0.05$).
- (3) After using the test product, the improvement in photographic evaluation grade was significantly better than before use at each follow-up time point ($p < 0.05$).
- (4) After using the test product, the wrinkle area improvement rate at 3 minutes was superior to that at other time points.

In summary, under the conditions of this test, the tested product exhibits anti-wrinkle efficacy.

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(1) After using the test product, the improvement in skin wrinkle area was significantly better than before use at each follow-up time point ($p < 0.05$).

(2) After using the test product, the improvement in visual evaluation grade was significantly better than before use at each follow-up time point ($p < 0.05$).

(3) After using the test product, the improvement in photographic evaluation grade was significantly better than before use at each follow-up time point ($p < 0.05$).

(4) **After using the test product, the wrinkle area improvement rate at 3 minutes was superior to that at other time points.**

In summary, under the conditions of this test, the tested product exhibits anti-wrinkle efficacy.

THANK YOU

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