

Retinol Renewal Cream No. 1 Clinical Benefits

Introduction

Formulations featuring high levels of retinol are considered the gold standard to reduce the signs of facial photoaging because of the ability of retinol to enhance collagen production, increase cell turnover, and exfoliate the skin. We have developed Retinol Renewal Cream No. 1 with encapsulated retinol to help preserve efficacy over time and to enhance tolerability. It also incorporates bioactive peptides, known to support collagen production, within an emollient base with ceramides, squalane, glycerin, and hyaluronic acid. The efficacy of Retinol Renewal Cream No. 1 was established in a single blinded 12 week clinical study with dermatologist assessment. The ability of the cream to provide excellent, long lasting moisturizing benefits was assessed in a separate evaluator-blinded, randomized clinical trial.

Study Design

Clinical Evaluation

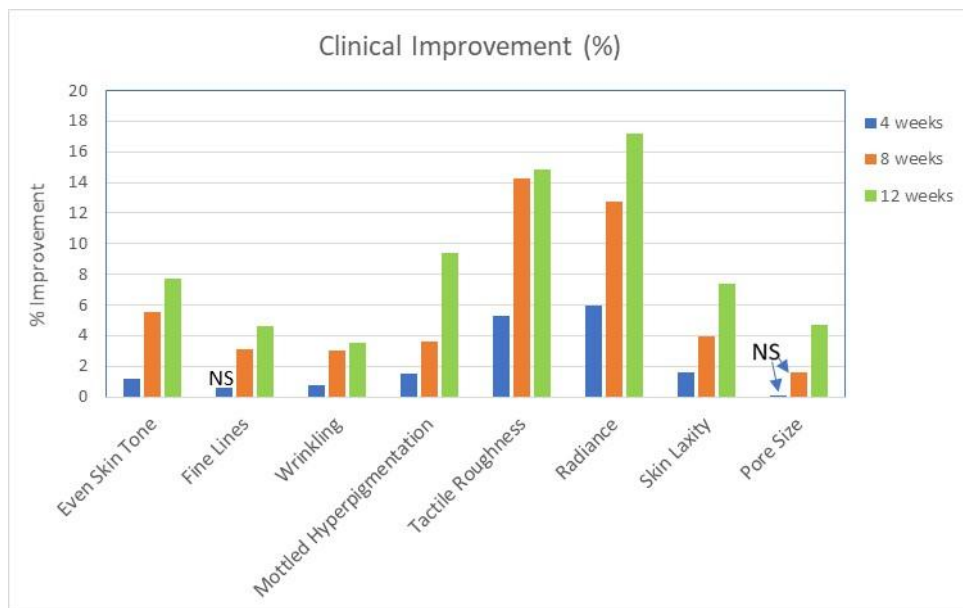
- 12 week clinical trial. Subjects used Retinol Renewal Cream No. 1 once nightly
- 34 female subjects, aged 35 to 65, with mild to moderate photodamage of the face (3-6 on a 10-point scale of periocular fine wrinkling and wrinkling) plus mild to moderate score (3-6 on a 10-point scale) for at least three of the following parameters:
 - Even Skin Tone
 - Fine Lines
 - Wrinkling
 - Mottled Hyperpigmentation
 - Tactile Surface Roughness
 - Radiance/Brightness
 - Skin Laxity
- Dermatologist assessment of all above signs of photodamage at baseline, 4, 8, and 12 weeks.
- Clinical imaging (Canfield Open Platform) at baseline and week 12.
- Tolerability assessments (Redness, Burning/Stinging Itching) at all timepoints.

Kinetic Moisturization

- Double-blinded, randomized clinical trial. Retinol Renewal Cream No. 1 applied at baseline on volar forearm test site
- 24 female subjects, Fitzpatrick I-V, with dry skin completed this study.
- Bioinstrumental assessments at baseline and hours 4, 8, and 24:
 - Skin moisture content by electrical capacitance (Corneometer CM 825, Courage + Khazaka electronic GmbH, Köln, Germany)
 - Skin moisture content by skin conductance (Skicon 200EX Skin Surface Hydrometer, IBS CO., Ltd, Japan).
 - Skin barrier integrity via trans epidermal water loss (TEWL) measurements (Tewameter TM300 , Courage + Khazaka electronic GmbH, Köln, Germany)

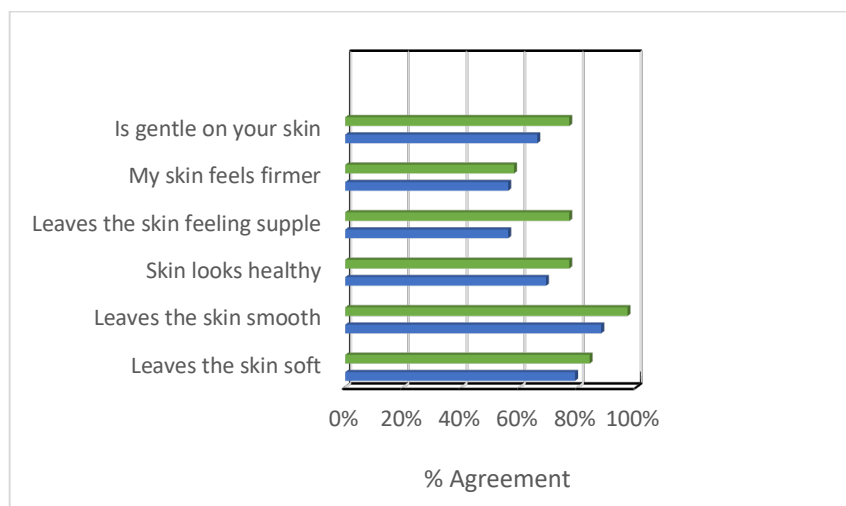
Results

Retinol Renewal Cream No. 1 delivered improvement in multiple hallmarks of photoaging including fine lines, wrinkles and mottled hyperpigmentation.



The study dermatologist observed improvements in key attributes of skin aging such as fine lines, wrinkling, tactile roughness, radiance, and skin laxity. Clinical improvements intensified with the treatment duration.

A large majority of the study participants agreed that using Retinol Renewal Cream No. 1 left their skin softer, smoother, and healthier looking.

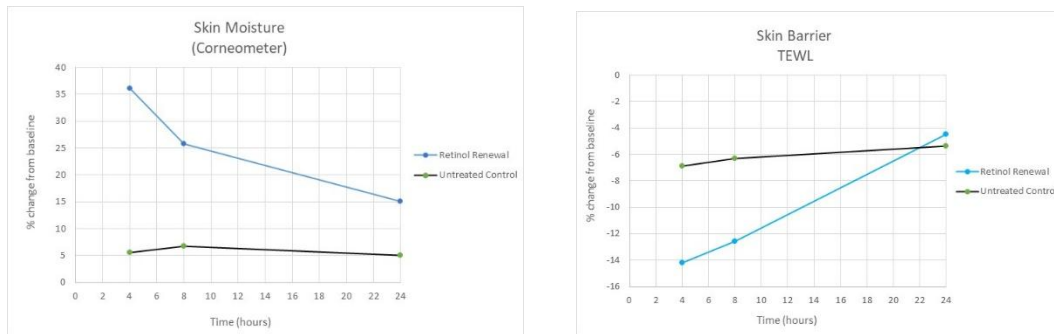


Retinol Renewal Cream No. 1 was well tolerated by the study participants. 77% agreed that their skin felt more supple and the majority agreed their skin felt firmer by week 12.

Clinical Tolerance

Retinol Renewal Cream was well tolerated. Only three subjects reported initial stinging/burning (1), itching (1), and tightness/dryness(1). These subjects resumed once nightly test product application after briefly reducing treatment frequency until their symptoms abated. No subject dropped due to adverse events.

Retinol Renewal Cream No. 1 provides 24 hour moisturization and strengthens skin barrier



Corneometer measurements were statistically significantly elevated compared to the untreated test site even after 24 hours. TEWL was statistically significantly lower than the untreated test site up until 8 hours after application of Retinol Renewal Cream No. 1.

Unaltered digital imaging shows improvement in wrinkling and discoloration.





Conclusions

- Retinol Renewal Cream No. 1 delivered improvement in multiple hallmarks of photoaging including fine lines, wrinkles and mottled hyperpigmentation.
- The cream provided 24 hours of moisturization, and lasting skin barrier improvement.
- Retinol Renewal Cream was gentle.