

Colsigen® Repair Dressing Improves Post-Treatment Comfort and Skin Quality Following Photorejuvenation



Zhang, Y. (2023). **Recombinant type III humanized collagen repair dressing** combined with photorejuvenation for the investigation of discomfort symptoms and skin quality improvement. Department of Dermatology, The First Affiliated Hospital of Shihezi University, Xinjiang. Chinese Scientific and Technical Journal Database.



Scan to read the original study

Summary

A randomized controlled trial of 120 patients at the First Affiliated Hospital of Shihezi University undergoing photorejuvenation (IPL) of the face were divided into two equal groups: a combined group treated with **photorejuvenation + Colsigen® (recombinant humanized type III collagen dressing)** and a control group treated with photorejuvenation + standard moisturising dressing. Both arms used identical IPL settings (560 nm, 10–15 ms, 8–15 J/cm², 15 °C), delivered in three sessions at 4-week intervals, with 12-week follow-up.

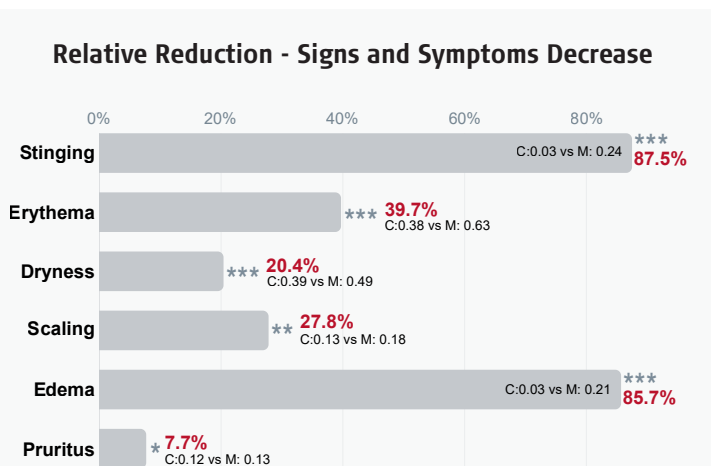


Fig 1. Moisturiser vs. Colsigen VAS Score at Day 10

Using a 10-cm Visual Analog Scale (VAS; 0 = no symptoms, 10 = severe), the Colsigen group achieved significantly greater signs and symptoms reduction than the Moisturiser group.

Note: Stinging and Edema show high RR values partly due to small denominators (M: 0.24 and 0.21; absolute differences are 0.21 and 0.18 VAS points respectively).

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, vs. moisturiser (Wilcoxon signed-rank test).

Results

- Colsigen group showed a **significantly greater reduction** in signs and symptoms by day 10 ***($p < 0.001$).
- Colsigen group showed **faster recovery** and **lower sign and symptom scores** than Moisturiser group at each timepoint.

Skin Quality Parameters - Difference in Improvement

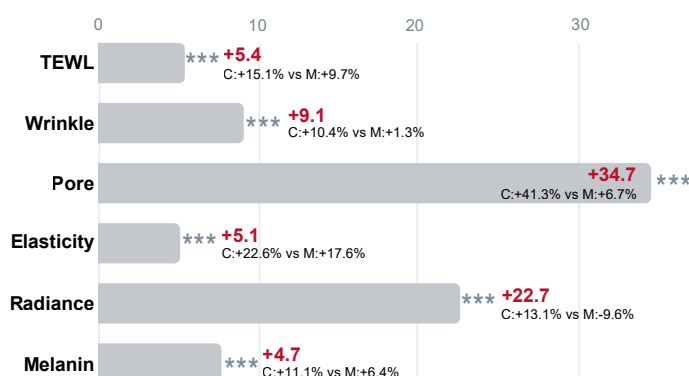


Fig 2. Colsigen vs. Moisturiser % Points Baseline to Week 12

Values represent the absolute difference in percentage points of improvement from baseline (Colsigen – Moisturiser). Positive values indicate Colsigen achieved a greater improvement. Radiance: Moisturiser decreased radiance (–9.6%) while Colsigen increased it (+13.1%).

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, vs. moisturiser (Wilcoxon signed-rank test).

Results

- Improvements in skin quality parameters at **Week 12** were **statistically significant** *($p < 0.05$) vs. moisturiser.
- Reduced **transepidermal water loss** ***($p < 0.0001$), **smaller pore area**, **fewer wrinkles**.
- Improved **elasticity, smoothness, and radiance** ***($p < 0.0001$).

For more information, please contact us at:
inquiries@stratpharma.com