

Results from a recent clinical study show that Dermacyte® Oxygen Concentrate, a novel perfluorocarbon based oxygen delivery cream, when applied twice daily to the face improves the appearance of fine lines as well as overall skin appearance.

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Background: Saturated oxygen environments have been known to have clinical benefit in a variety of therapeutic indications. A perfluorocarbon used topically has been shown to promote wound healing in a recent randomized, controlled trial.¹ In addition, increased oxygen tension has been shown to attenuate acute ultraviolet-B-induced angiogenesis and wrinkle formation.²

Objective: This study was conducted to evaluate the efficacy of a novel oxygen delivery cream applied topically in the improvement of the appearance of fine lines and overall skin appearance.

Methods: Thirty-six women ages 39-63 with mild to moderate facial wrinkles were enrolled and treated in an eight-week trial of Dermacyte® Oxygen Concentrate for the appearance and improvement of fine lines. Assessment of the efficacy of this novel cosmetic was made by measuring improvements in skin wrinkles and elastosis using the Fitzpatrick Wrinkle Assessment Scale (FWAS), texture using skin replication, and subject-reported and investigator-reported improvement in self-image using a validated Global Improvement Aesthetic Scale (GAIS).

Results: At the conclusion of the 8-week study, 80% of subjects experienced at least a one grade improvement on the FWAS (P<0.0001); 97% experienced at least a one grade improvement compared to their baseline photos according to the investigator's GAIS (P<0.0001), and 84% showed at least a one grade improvement on their own self perception of GAIS (P<0.0001).

FWAS	80% Showed improvement	P<0.0001
GAIS	Investigator scored: 97% of subjects improved compared to baseline photos	P<0.0001
GAIS	Subject scored: 84% improved on their own self perception	P<0.0001

Conclusion: Topical application of oxygen in the form of Dermacyte® Oxygen Concentrate improves the appearance of fine lines as well as overall skin appearance.

¹ Davis, S; Cazzaniga, A; Ricotti, C; Zalesky, C; Hsu, L; Creech, J; Eaglstein, W; and Mertz P. **Topical Oxygen Emulsion A Novel Wound Therapy.** *Arch Dermatol.* 2007;143(10):1252-1256

² Kawada, S; Ohtani M; and Ishii N. **Increased oxygen tension attenuates acute ultraviolet-B-induced skin angiogenesis and wrinkle formation.** *Am J Physiol Regul Integr Comp Physiol;* May 2010