

ACNE, ROSACEA, AND RELATED DISORDERS (INCLUDING HIDRADENITIS SUPPURATIVA)

COMPLETE SCALP HEALTH IMPROVEMENT BY PIROCTONE OLAMINE-BASED SHAMPOO

J Schwartz⁽¹⁾

Procter & Gamble, Research & Development, Cincinnati, United States⁽¹⁾

Introduction: “Scalp health” encompasses not only relevant features of all skin – dryness, tightness, itch and flaky appearance – but also providing a nurturing environment for healthy hair growth and retention. Scalp condition is the result of the interaction between environmental influences, intrinsic parameters and the scalp microbiome. An unhealthy scalp may have outward clinical symptoms or have only sub-clinical manifestations.

Objective: To clinically evaluate a new piroctone olamine (PO)-based shampoo vs. a placebo control for improvement in a range of parameters related to scalp health.

Materials and Methods: A double blind, placebo-controlled clinical evaluation was conducted within a compromised scalp health population to evaluate common scalp health endpoints such as dandruff, dryness and itch, as well as objective endpoints utilizing both biomarkers and instrumental methods. In this three week treatment study, statistical significance was defined as $p \leq 0.05$. The PO shampoo represents a new commercially available formulation while the placebo is a similar product without PO.

Results: The clinical results demonstrate significant improvement in degree of dandruff flaking, reduction of self-perceived itch and dryness. These expert and self-assessments are reinforced by a number of objective measures of scalp health, including: skin histamine level, oxidative stress status, biomarkers related to inflammation and irritation and instrumental assessments of skin barrier integrity.

Conclusions: A new PO-based shampoo has been demonstrated to improve overall scalp health in a placebo-controlled double blind clinical study amongst a compromised scalp health population. The measures cover a wide range of scalp health indicators, providing confidence in the completeness of scalp health improvement demonstrated by use of the new product.