

# Medline Remedy® Clinical Hydrating Shampoo and Body Wash Gel Improves the Overall Look and Feel of Hair and Scalp

Clinical Evidence Summary



## Background

Sensitive skin is defined as skin that is more readily prone to contact irritant reaction than the average individual.<sup>1</sup> Sensitive skin benefits from skin cleansers that are non-irritating and improve skin hydration. In particular, skin cleansers that include emollients provide greater skin hydration benefits.<sup>1</sup>

Medline offers the Remedy® Clinical Hydrating Shampoo and Body Wash Gel that cleanses and conditions both sensitive skin and fragile hair. The product has a sulfate-free formulation that includes emollients and dimethicone to maintain natural pH, moisture balance, and promote skin moisture. The product is intended for use on both intact skin and irritated skin.

Medline conducted a clinical study<sup>2</sup> using a third-party facility to evaluate the efficacy of the Remedy Clinical Hydrating Shampoo and Body Wash Gel in improving the overall look and feel of hair and skin at the scalp.

## Methods

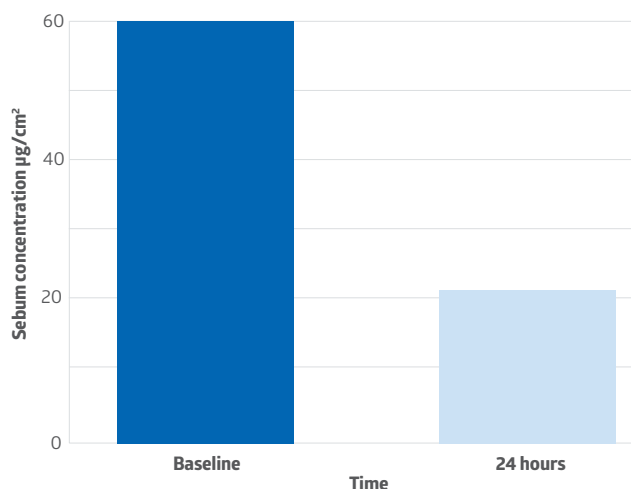
The clinical study recruited 24 participants and obtained informed consent from each participant. Participants were asked to avoid using any oil-reducing products for 72 hours prior to study activities. During the study, participants were instructed to apply a quarter-sized amount of the product to their hair, massage the area, and rinse the product from their hair.

The concentration ( $\mu\text{g} / \text{cm}^2$ ) of sebum, or skin surface lipids, was measured using a Sebumeter device at baseline and at 24 hours after the product was applied. Based on the results of sebum concentration at both time points, the decrease in sebum after using the product was calculated. Additionally, the participants completed a consumer perception questionnaire for the Remedy Clinical Hydrating Shampoo and Body Wash Gel at the conclusion of the study.

## Results

The results of the study and statistical analysis of the results<sup>3</sup> indicated that 24 hours after applying the product, the Remedy Clinical Hydrating Shampoo and Body Wash Gel significantly decreased sebum concentration compared to baseline sebum concentration.\*

Graph 1. Sebum Concentration ( $\mu\text{g}/\text{cm}^2$ ) Overall Averages



On average, there was a 64.87% decrease in sebum concentration from baseline to 24 hours after application.\*

Table 1. Summary Statistics of Percent (%) Difference in Sebum Concentration

Participants	Mean	Median	Standard Deviation
24	64.87%	67.13%	20.64%

The results of the responses to the consumer perception questionnaire demonstrated that the majority of the 24 participants felt as though their hair felt clean and that their scalp felt hydrated after applying the Remedy Clinical Hydrating Shampoo and Body Wash Gel.

Table 2. Highlighted Results of the Consumer Perception Questionnaire

Question	% of Participants Agreed
"My hair feels clean"	79.17%
"My scalp feels hydrated"	70.83%

## Conclusions

The Remedy Clinical Hydrating Shampoo and Body Wash Gel is intended to cleanse and condition sensitive skin and fragile hair. The clinical study demonstrated that the product significantly decreased sebum concentration by 64.87%, suggesting that the Remedy Clinical Hydrating Shampoo and Body Wash Gel improves the look and feel of hair and skin at the scalp. Additionally, the majority of participants thought their hair felt clean and their scalp felt hydrated.

\*Statistical Analysis: All analyses were conducted with 95% confidence in Rstudio. Descriptive statistics were used to present mean values and distributions of the percent difference in sebum concentration  $\mu\text{g}/\text{cm}^2$  to support the primary endpoint of change from Baseline to 24 hours sebum concentration. The Paired T-test was used to determine the presence of a true difference between Baseline and 24 hours sebum concentration. The distribution of the panelists show a binomial distribution for the Baseline sebum concentration and a right-skewed distribution for the 24 hours sebum concentration.

References: 1. Mukhopadhyay P. Cleansers and their role in various dermatological disorders. *Indian J Dermatol*. 2011 Jan;56(1):2-6. doi: 10.4103/0019-5154.77542. PMID: 21572782; PMCID: PMC3088928. 2. Advanced Science Laboratories, Inc. Report #: MS21.Sebum in Use.a0321.Medl.rep. An Investigation Into The Efficacy Of A Test Material Intended to Improve the Overall Look and Feel of Hair and Skin in Scalp Areas. 3. Final Statistical Report 2023-03-02 on File.