Dermatological product in use test with Cutimed® ACUTE containing 5% and 10% urea on diabetics

proDERM Institute for Applied Dermatological Research GmbH
The use of Cutimed® ACUTE containing 5%

Introduction
The fragile skin of diabetics requires a pure moisture formulation to meet the requirements of this dry and sensitive skin type. Urea is the ingredient of modern diabetic skin moisturisers. As a natural moisturising factor urea helps to bind water and thereby re-balances skin hydration.

Objective
The aim of this study was to evaluate the skin tolerability, efficacy and cosmetic acceptance of two urea-based skin care products on diabetics with dry and very dry skin in the test areas.

Materials and Methods
The two test products were Cutimed® ACUTE cream mousse containing 5% and 10% urea, respectively. These skin care products were applied by the 21 volunteers (3 male, 18 female) themselves at home.

For each volunteer two test areas were determined by measuring skin hydration using the Corneometer®. The Corneometer® gives information about the degree of hydration in the outer layer of the skin (horny layer) and gives an indication of the quality of skin barrier function.

The volunteers were instructed to apply the test products on the defined test areas twice daily, over a period of four weeks, according to an application plan: Cutimed® ACUTE 5% and 10% urea on dry and very dry skin. After four weeks of product application, a trained investigator and the volunteers themselves evaluated the status of the skin of the test areas in addition to measurements of skin hydration using a Corneometer®.

Assessment of the skin status by volunteers
The following graphs show the volunteers’ assessments of the parameters itching, roughness and dryness before and after daily application of Cutimed® ACUTE 5% and 10% urea.

Result:
The volunteers’ assessments show a marked improvement in the skin of diabetics in terms of dryness, roughness and itchiness after using Cutimed® ACUTE 5% and 10% urea.
and 10% urea on dry and very dry skin

**Dermatological Expert Assessment**

The graphs illustrate the dermatological test results undertaken by a trained investigator.

The evaluation carried out by a trained investigator also demonstrates the marked improvement in the skin of diabetics after using Cutimed® ACUTE 5% and 10% urea.

**Assessment of skin hydration by Corneometer® measurements**

This following figure shows the effect on skin hydration of two different test areas, which had been assigned for treatment with Cutimed® ACUTE 5% or Cutimed® ACUTE 10% urea. Measurements were performed at the beginning of the study and after four weeks of treatment.

On the dry and the very dry test areas there was a significant increase of skin hydration after four weeks’ of treatment with Cutimed® ACUTE 5% and 10% urea.
Study Site
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Test Dates
January 25 to February 22, 2008