

PubMed

Format: Abstract ▾J Cosmet Sci. 2011 Jul-Aug;62(4):361-70.

Skin moisturizing effects of panthenol-based formulations.

Camargo FB Jr¹, Gaspar LR, Maia Campos PM.

+ Author information

Abstract

This study aims to evaluate the skin moisturizing efficacy of formulations containing different concentrations of panthenol. Formulations supplemented with or without 0.5%, 1.0%, or 5.0% panthenol were applied daily to the forearms of healthy subjects. Skin conditions in terms of moisture and transepidermal water loss (TEWL) were analyzed before and after 15- and 30-day periods of application. The formulations were also applied after skin washing with sodium laureth sulphate (SLES) to evaluate the immediate effects on TEWL and skin moisture. Panthenol-containing formulations (1.0% and 5.0%) produced significant decreases in TEWL after 30-day applications. In skin washed with SLES, significant reduction of TEWL was evident two hours after application of formulations loaded with panthenol when compared with control and vehicle. It is concluded that skin integrity is maintained by the improved protective effect of 1.0% panthenol added to the formulation.

PMID: 21982351

[Indexed for MEDLINE]

**Publication types, MeSH terms, Substances****LinkOut - more resources**

