Human skin barrier recovery

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The study investigates if how the skin recovers after barrier disruption by tape-stripping and what the effects the application of a formulation is on this process. Lipophilic formulations are commonly used in the treatment of atopic eczema, yet,...

Ethische beoordeling	Positief advies
Status	Werving tijdelijk gestopt
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON28503

Bron
Nationaal Trial Register

Verkorte titel
HSBR

Aandoening

Atopic Eczema, skin barrier, stratum corneum

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The lipid compostion of the stratum corneum. The lameller and lateral lipid organization.

Toelichting onderzoek

Achtergrond van het onderzoek

Information not provided by researcher.

Doel van het onderzoek

The study investigates if how the skin recovers after barrier disruption by tape-stripping and what the effects the application of a formulation is on this process. Lipophilic formulations are commonly used in the treatment of atopic eczema, yet, how these formulations exert there effect is unknown. In this study the effects of the formulation on the barrier function measured as trans epidermal water loss and the lipid composition and organization of the other most layer of the skin: the stratum corneum, are investigated. It is hypothesized that the formulation will affect the lipid composition of the stratum corneum and this changes towards a composition with better barrier properties thereby improve the skin barrier.

Onderzoeksopzet

The trans epidermal water loss will be monitored at day 0, 1, 2, 3, 7, and 16 after barrier disruption. The lipid composition is measured by acquiring stratum corneum material at day 16 by tape stripping. Tape strips are extracted and analyzed using liquid chromatography and mass spectrometry. The lateral organization is studied at day 16 using attenuated total reflectance Fourier-transform infrared spectroscopy. The lamellar organization is studied using small angle x-ray diffraction of biopsy obtained at day 16.

Onderzoeksproduct en/of interventie

Treatment with a venix caseosa based formulation

Contactpersonen

Publiek

[default]
The Netherlands

Wetenschappelijk

[default]
The Netherlands

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Age between 18-40

- Caucasian

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Abundant hair presence on the ventral forearms;

- Unnatural abnormalities on one of their ventral forearms (e.g. skin lesions, tattoos);

- Subjects using any systemic drug therapy (e.g. cholesterol-lowering drugs, insulin related drugs, steroids and immunosuppressants);

- Chronically inflammatory disease;

- Dermatological disorders or a history of dermatological disorders;

- History of drug abuse;

- Pregnancy;

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving tijdelijk gestopt
(Verwachte) startdatum:	19-10-2015

Aantal proefpersonen:	15
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	12-01-2018
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 43983
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7003
NTR-old	NTR7193
CCMO	NL51870.058.14
OMON	NL-OMON43983

Resultaten