Omega 3 fatty acids in skin cell protection from ultraviolet damage

Submission date	Recruitment status	Prospectively registered
29/04/2010	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
29/04/2010	Completed	Results
Last Edited	Condition category	Individual participant data
12/04/2017	Skin and Connective Tissue Diseases	Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Miss Suzanne Pilkington

Contact details

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Additional identifiers

Protocol serial number 4953

Study information

Scientific Title

Omega 3 fatty acids in skin cell protection from ultraviolet damage

Study objectives

Examination into the photoprotective potential of topically applied omega-3 fatty acids. Changes in the parameters of short- and long-term UV-damage will be assessed. This includes analysis of the sunburn response, bioavailability of fatty acids, expression of lipid mediators and expression of p53 and collagen.

Ethics approval required

Old ethics approval format

Ethics approval(s)

MREC approved, ref: 08/H1004/19

Study design

Non-randomised interventional trial

Primary study design

Interventional

Study type(s)

Not Specified

Health condition(s) or problem(s) studied

Topic: Skin; Subtopic: Skin (all Subtopics); Disease: Dermatology

Interventions

Topical agents containing low doses of omega-3 fatty acids applied to the skin

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

To measure changes in the erythemal response to UVR in the skin

Key secondary outcome(s))

- 1. To measure changes in levels of bioactive mediators derived from fatty acids in the skin in response
- 2. To measure changes in the fatty acid levels in the skin

Completion date

30/09/2011

Eligibility

Key inclusion criteria

- 1. White Caucasian, either sex
- 2. Aged between 20 and 60 years old
- 3. Skin type 1 to 3

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

- 1. Taking photoactive or anti-inflammatory medication
- 2. History of photosensitivity
- 3. History of skin cancer
- 4. Pregnant or breast feeding
- 5. Taking omega-3 supplements
- 6. Sunbathed in past 3 months

Date of first enrolment

01/04/2008

Date of final enrolment

30/09/2011

Locations

Countries of recruitment

United Kingdom

England

Study participating centre Photobiology Unit

Salford United Kingdom M6 8HD

Sponsor information

Organisation

University of Manchester (UK)

ROR

Funder(s)

Funder type

Research council

Funder Name

Biotechnology and Biological Science Research Council (BBSRC) (UK)

Funder Name

Croda International Plc (UK)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration