

Omega 3 fatty acids in skin cell protection from ultraviolet damage

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

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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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

Primary study design

Interventional

Study design

Non-randomised interventional trial

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 erythematous 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

<https://ror.org/027m9bs27>

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