ISRCTN43688684 https://doi.org/10.1186/ISRCTN43688684

Investigation of the effects and mechanisms of action of different wavelengths of ultraviolet B (UVB) radiation in the treatment of psoriasis

Submission date	Recruitment status	[ ] Prospectively registered
12/05/2010	No longer recruiting	[ ] Protocol
Registration date	**Overall study status**	[ ] Statistical analysis plan
12/05/2010	Completed	[ ] Results
Last Edited	**Condition category**	[ ] Individual participant data
13/12/2019	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

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Additional identifiers

Protocol serial number
5623; 079504

Study information

Scientific Title

Investigation of the effects and mechanisms of action of different wavelengths of ultraviolet B (UVB) radiation in the treatment of psoriasis: a single centre non-randomised treatment trial

Acronym
MECH-UVB-PSOR

Study objectives
To test the hypothesis that keratinocyte apoptosis is an important mechanism of action of ultraviolet B (UVB) phototherapy in the clearance of psoriasis, and to investigate the correlation between effectiveness of different wavelengths of UV and apoptotic response in the clearance of psoriasis.

Ethics approval required
Old ethics approval format

Ethics approval(s)
County Durham and Tees Valley (1) REC, ref: 06/Q1003/78

Study design
Single centre non-randomised interventional treatment trial

Primary study design
Interventional

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Topic: Skin; Subtopic: Skin (all Subtopics); Disease: Dermatology

Interventions
Compare the apoptotic effect of different wavelengths of UVB in psoriatic epidermis in vivo.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Whether the number of apoptotic cells seen within the epidermis is sufficient to allow plaque remodelling. Measured up to 48 hours (4 hours, 8 hours, 12 hours,15 hours, 18 hours, 24 hours, and 48 hours).

Key secondary outcome(s))
1. Effect of skin type
2. UV dose
3. Age and gender

Measured up to 48 hours (4 hours, 8 hours, 12 hours,15 hours, 18 hours, 24 hours, and 48 hours).

Completion date
30/04/2010

Eligibility

Key inclusion criteria
1. Aged 18 years and over, with no sex specific criteria
2. All patients who are prescribed routine UVB (TL01) for their psoriasis at our centre
3. Give informed consent to participate

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 years

Sex
All

Key exclusion criteria
1. Aged under 18 years
2. Systemic immunosupression within 3 months
3. UVB exposure to lower back within 3 months of recruitment
4. Topical treatments other than emollients for 2 weeks

Date of first enrolment
01/10/2006

Date of final enrolment
30/04/2010

Locations

Countries of recruitment
United Kingdom

England

Study participating centre
Newcastle University
Newcastle

United Kingdom
NE2 4HH

Sponsor information

Organisation
Newcastle upon Tyne Hospitals NHS Foundation Trust (UK)

ROR
https://ror.org/05p40t847

Funder(s)

Funder type
Charity

Funder Name
The Wellcome Trust (UK) (grant ref: 079504)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration