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

Submission date 12/05/2010	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [_] Record updated in last year
Registration date 12/05/2010	**Overall study status** Completed	
Last Edited 13/12/2019	**Condition category** Skin and Connective Tissue Diseases	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
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

Secondary study design
Non randomised controlled trial

Study setting(s)
Other

Study type(s)
Treatment

Participant information sheet
Not available in web format, please use the contact details below to request a patient information sheet

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 measure
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).

Secondary outcome measures
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).

Overall study start date
01/10/2006

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

Age group
Adult

Lower age limit
18 Years

Sex
Both

Target number of participants
Planned sample size: 121

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
England

United Kingdom

Study participating centre
Newcastle University
Newcastle
United Kingdom
NE2 4HH

Sponsor information

Organisation
Newcastle upon Tyne Hospitals NHS Foundation Trust (UK)

Sponsor details
Queen Victoria Road
Newcastle Upon Tyne
England
United Kingdom
NE1 4LP

Sponsor type
Hospital/treatment centre

Website
http://www.newcastle-hospitals.org.uk/

ROR
https://ror.org/05p40t847

Funder(s)

Funder type
Charity

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

Results and Publications

Publication and dissemination plan
Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration