

Comparing high altitude treatment with current best care in children with Atopic Dermatitis (AD) and asthma within the atopic syndrome by the Wilhelmina Childrens Hospital, Utrecht-Dutch Asthma Centre, DAVOS

Submission date 02/05/2013	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 22/05/2013	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 01/10/2019	Condition category Skin and Connective Tissue Diseases	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

About 20% of children in western European countries have atopic dermatitis (AD) (eczema), often as part of the atopic syndrome (a tendency to develop allergy). Some children continue to have symptoms despite best treatment. We want to provide new treatment options for these children. We are carrying out a study to compare two different new treatments for children with moderate to severe atopic dermatitis. Our goal is to find the most favourable treatment for children with AD. The study's findings should help to improve the quality of life of children with moderate to severe AD.

Who can participate?

Children between 8 and 18 years of age, with moderate to severe AD and asthma, from the Netherlands, can participate in this study.

What does the study involve?

In this study, two treatments are compared. One is a 6-week treatment at the outpatient clinic of the University Medical Centre, Utrecht in the Netherlands. The other is a 6-week treatment at the Dutch Asthma Centre Davos in Switzerland. The treatment that the participant will receive is decided by a process called randomisation, which is like a coin toss. After the treatment period, participants are followed up immediately after the treatment, 6 weeks and 6 months after the treatment. At these time points, we ask the participant to fill in questionnaires, blood and skin samples are taken and a lung function test is done.

What are the possible benefits and risks of participating?

Possible benefits of participating in the study are treatment for the disease, coping with the

disease in a better way and improved quality of life. Long-term benefits are that new treatment will become available for all children with moderate to severe AD. There are no direct risks of participating in this study.

Where is the study run from?

The trial has been set up by the University Medical Centre, Utrecht, Netherlands in collaboration with the Dutch Asthma Centre Davos, Switzerland.

When is the study starting and how long is it expected to run for?

The study started in September 2010 and is expected to run until the summer of 2014.

Who is funding the study?

The University Medical Center Utrecht, MEREM, Vrienden van het WKZ, the European Allergy Clinic Davos and Vereniging Nederland Davos.

Who is the main contact?

Dr Suzanne Pasmans
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Contact information

Type(s)

Scientific

Contact name

Dr Suzanne G.M.A. Pasmans

Contact details

PO Box 85090
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Netherlands
3508 AB

Additional identifiers

Study information

Scientific Title

A pragmatic randomized controlled trial comparing high altitude treatment with current best care in children with moderate to severe atopic dermatitis (and asthma) in the Netherlands: multidisciplinary treatment at the high altitude clinic Dutch Asthma Centre Davos, Switzerland versus the Wilhelmina Childrens Hospital Utrecht, the Netherlands

Acronym

DAVOS

Study objectives

Multidisciplinary treatment for 6 weeks at the Dutch Asthma Centre Davos will improve disease coping and acceptance and quality of life of children with AD more than multidisciplinary treatment in the Wilhelmina Childrens Hospital. The null hypothesis we test is that there is no difference between the effects of both treatments.

On 03/12/2013 the following changes were made to the trial record:

1. The scientific title was changed from 'A randomised controlled trial comparing high altitude treatment with current best care in children with atopic dermatitis and asthma within the atopic syndrome in the Netherlands. Multidisciplinary treatment at the high altitude clinic Dutch Asthma Centre Davos, Switzerland versus the Wilhelmina Childrens Hospital Utrecht, the Netherlands: a national study' to 'A pragmatic randomized controlled trial comparing high altitude treatment with current best care in children with moderate to severe atopic dermatitis (and asthma) in the Netherlands: multidisciplinary treatment at the high altitude clinic Dutch Asthma Centre Davos, Switzerland versus the Wilhelmina Childrens Hospital Utrecht, the Netherlands'.
2. The anticipated end date was changed from 01/02/2015 to 01/06/2015.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Medical Ethics Committee, Utrecht Medical Center, Utrecht, the Netherlands, 18/12/2009, Ref: MEC 09-192-K

Study design

Pragmatic randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Atopic dermatitis and asthma within the atopic syndrome

Interventions

Intervention: multidisciplinary treatment at the Dutch Asthma Centre in Davos, Switzerland for 6 weeks

Active control: multidisciplinary treatment at the outpatient clinic of the pediatric dermatology and allergology department at the Wilhelmina Childrens Hospital, the Netherlands for 6 weeks

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Current primary outcome measures as of 03/12/2013:

1. Disease coping and acceptance, measured with the COPEKI/JUCCKI questionnaire

2. Disease-specific quality of life, measured with Children's Dermatology Life Quality Index (CDQLI)

3. Self Administered Eczema Area and Severity Index (SA-EASI)

All measured before the intervention, directly after the intervention, 6 weeks after the intervention and 6 months after the intervention

Previous primary outcome measures:

1. Disease coping and acceptance, measured with the COPEKI/JUCCKI questionnaire directly after the intervention and 6 months after the intervention

2. Disease-specific quality of life, measured with Children's Dermatology Life Quality Index (CDQLI) directly after the intervention, 6 weeks after the intervention and 6 months after the intervention

Key secondary outcome(s)

Current secondary outcome measures as of 03/12/2013:

1. Disease activity and disease control (for AD and asthma), measured with

1.1. Used (topical) corticosteroids

1.2. Paediatric Asthma Quality of Life Questionnaire (PAQLQ)

1.3. Asthma Control Questionnaire (ACQ)

1.4. Lung function test (spirometry)

1.5. Fractional exhaled Nitric Oxide (FeNO)

1.6. Used asthma medication

All measured before, directly after the intervention, 6 weeks and 6 months after the intervention

1.7. Bronchial hyperresponsiveness (metacholine provocation test)

Measured before intervention and 6 months after intervention

2. Inflammatory and immunological profile, measured with serum levels of Thymus and Activation and Regulated Chemokine (TARC), cytokine profile (Th1/Th2) and eosinophil levels.

Measured before, directly after intervention, 6 weeks and 6 months after the intervention

3. Social and emotional wellbeing of the child and quality of life of the parents, including parental stress and fear.

Measured before, directly after intervention, 6 weeks and 6 months after the intervention

4. Other:

4.1. Bacterial colonization of the skin and nose, protease activity in skin

Measured before the intervention, directly after the intervention, 6 weeks and 6 months after the intervention

4.2. Physical condition (maximal cycle ergometer test) before intervention and 6 months after the intervention

4.3. Extra appointments with the dermatologist/e-consultations/visits to the hospital are recorded during the follow-up period

Previous secondary outcome measures:

1. Disease activity and disease control (for AD and asthma), measured with

1.1. Self Administered Eczema Area and Severity Index (SAEASI)

1.2. Used (topical) corticosteroids

1.3. Paediatric Asthma Quality of Life Questionnaire (PAQLQ)

1.4. Asthma Control Questionnaire (ACQ)

1.5. Lung function test (spirometry)

1.6. Fractional exhaled Nitric Oxide (FeNO)

1.7. Used asthma medication

All measured before, directly after the intervention, 6 weeks and 6 months after the intervention

1.8. Bronchial hyperresponsiveness (metacholine provocation test)

Measured before the intervention and 6 months after the intervention

2. Inflammatory and immunological profile, measured with serum levels of Thymus and Activation and Regulated Chemokine (TARC), cytokine profile (Th1/Th2) and eosinophil levels. Measured before, directly after the intervention, 6 weeks and 6 months after the intervention
3. Social and emotional wellbeing of the child and quality of life of the parents, including parental stress and fear. Measured before, directly after the intervention, 6 weeks and 6 months after the intervention
4. Other:
 - 4.1. Bacterial colonization of the skin and nose, protease activity in skin Measured before the intervention, directly after the intervention, 6 weeks and 6 months after the intervention
 - 4.2. Physical condition (maximal cycle ergometer test) before intervention and 6 months after the intervention
 - 4.3. Extra appointments with the dermatologist/e-consultations/visits to the hospital are recorded during the follow-up period

Completion date

01/06/2015

Eligibility

Key inclusion criteria

1. Moderate to severe atopic dermatitis
2. 8-18 years
3. Be able to speak and write in Dutch
4. Internet access and be able to use the Digital Eczema Center Utrecht
5. Willing to stay for 6 weeks in the Dutch Asthma Centre Davos

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

8 years

Upper age limit

18 years

Sex

All

Key exclusion criteria

Current participation in another study

Date of first enrolment

01/09/2010

Date of final enrolment

01/06/2015

Locations

Countries of recruitment

Netherlands

Study participating centre

PO Box 85090

Utrecht

Netherlands

3508 AB

Sponsor information

Organisation

University Medical Center Utrecht (UMCU) (Netherlands)

ROR

<https://ror.org/0575yy874>

Funder(s)

Funder type

University/education

Funder Name

University Medical Center Utrecht (UMCU), Department of (Pediatric) Dermatology and Allergology, MEREM, Vrienden van het WKZ, European Allergy Clinic Davos (EACD), Vereniging Nederland-Davos (VND)

Results and Publications

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/02/2018	31/01/2019	Yes	No
Results article	results	01/06/2018	01/10/2019	Yes	No
Protocol article	protocol	26/03/2014		Yes	No