

Treatment trial of high altitude cough

Submission date	Recruitment status	<input type="checkbox"/> Prospectively registered
01/03/2010	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
16/04/2010	Completed	<input type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
30/07/2010	Respiratory	<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number

077078; OUCRU # 17AV; B9RJIXO

Study information

Scientific Title

Treatment of high altitude cough (HAC) with salmeterol 50 µg and fluticasone 250 µg, one puff twice daily (bid) on Mount Everest: a randomised controlled trial

Acronym

17AV

Study objectives

In this study we want to test the hypothesis that inhaled salmeterol and fluticasone will be effective in the treatment of high altitude cough (HAC) in climbers at the base camp or while climbing Everest.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Oxford Tropical Research Ethics Committee (UK) approved on the 10th February 2010 (ref: 09-10)

Study design

Single centre randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

High altitude cough (HAC)

Interventions

Please note that as of 30/07/10 this trial has been extended from 01/10/2010 to 01/10/2011

The study will take place in the Everest base camp (5300 m).

Mountaineers as they ascend to base camp will be made aware of this study by means of recruitment posters in the lodges that provide accommodation in the villages along the way to the Everest Base Camp and also by requests for volunteers at the daily altitude education talks given at the Himalayan Rescue Association post in Pheriche.

Interested mountaineers will have the study explained again by the Base Camp Clinic doctors and asked if they would like to participate. Study staff will ensure that participants do not meet any of the exclusion criteria.

Participants who consent will be assigned a study number and then requested to fill out a baseline modified Leicester Cough Questionnaire. They will also have their blood pressure, pulse, peak flow, O₂ saturation measured and lung and heart auscultation carried out.

Participants will then be randomised by computer program to either arm of the study:

1. Inhaled (through a rotahaler) salmeterol 50 µg and fluticasone 250 µg puffs twice daily (bid)
2. Placebo bid

The rotahalers have a 14 day supply of drugs. Their randomisation number will correspond to prepackaged identical rotahalers.

At day 7 and day 14, the subjects will again be re-assessed using the above parameters and again filling out the modified Leicester Cough Questionnaire. Unused medication will be collected and disposed of according to local regulations.

Intervention Type

Drug

Phase

Phase II

Drug/device/biological/vaccine name(s)

Salmeterol, fluticasone

Primary outcome(s)

The incidence of HAC using the modified the Leicester Cough Questionnaire before and after the rotahaler intervention. Measured at day 0, day 7 and day 14 of the study.

Key secondary outcome(s)

Measured at day 0, day 7 and day 14 of the study:

1. Oxygen saturation
2. Peak flow
3. Pulse
4. Lung auscultation

Completion date

01/10/2011

Eligibility

Key inclusion criteria

1. Healthy men or women
2. Between the ages of 18 and 65 years
3. Have HAC, defined as persistent (greater than 1 day) sometimes paroxysmal cough that disturbs sleep or daily activity or both. The cough may be dry or productive but is not associated with fever, chills, shortness of breath or desaturation less than 75% at Everest Base Camp (EBC) (5300 m).

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Upper age limit

65 years

Sex

All

Key exclusion criteria

1. Individuals with other obvious diagnoses causing cough (e.g., viral or bacterial pneumonia, high altitude pulmonary oedema [HAPE])
2. Unwillingness to comply with study treatment
3. Lack of informed consent
4. Individuals on beta agonists or steroid inhalers, steroid nasal sprays or oral steroids within the last 2 weeks

Date of first enrolment

01/04/2010

Date of final enrolment

01/10/2011

Locations

Countries of recruitment

Nepal

Study participating centre

Lal Durbar

Kathmandu

Nepal

44600

Sponsor information

Organisation

University of Oxford (UK)

ROR

<https://ror.org/052gg0110>

Funder(s)

Funder type

Charity

Funder Name

The Wellcome Trust (UK) (grant ref: 077078)

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?
<u>Participant information sheet</u>	Participant information sheet	11/11/2025	11/11/2025	No	Yes