

Mannitol inhalations as faster procedure for testing of airways hyper-responsiveness

Submission date 22/11/2006	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 22/11/2006	Overall study status Completed	☐ Statistical analysis plan ☐ Results
Last Edited 28/11/2006	Condition category Respiratory	☐ 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
Griac001

Study information

Scientific Title

Study objectives

Measurement of airways hyperresponsiveness by mannitol (Aridol©) as compared to methacholine saves time to the lung function technician, while being as sensitive to discern hyperresponsive from normo-responsive, and being at least equally acceptable to patients presenting at a pulmonary out-patient clinic.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Medisch Ethische Toetsingscommissie Universitair Medisch Centrum Groningen (Medical Ethical Committee University Medical Center Groningen), approval received on October 3rd 2006.

Primary study design

Interventional

Study design

Randomised controlled trial

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Asthma, Chronic Obstructive Pulmonary Disease (COPD)

Interventions

Measurement of bronchial hyper-responsiveness with mannitol and methacholine.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Mannitol and methacholine

Primary outcome(s)

Time involved in measurement of hyper-responsiveness (including technician time for preparation and cleaning).

Key secondary outcome(s)

1. Patient reported adverse events.
2. Patient preference.
3. Technician preference.
4. Borg score during test.
5. Exhaled Breath Condensate (EBC).
6. Bronchial Hyper-Reactivity questionnaire (BHR)

Completion date

31/08/2007

Eligibility

Key inclusion criteria

Asthmatics:

1. Episodic symptoms of dyspnea, and/or wheezing, and/or cough
2. Allergic or non-allergic
3. Non current smokers (more than 0.5 years)
4. Provocation Concentration that causes a decrease in forced expiratory volume in one second of 20% (PC20) for MethaCholine (MCh) less than 8 mg/ml

Chronic Obstructive Pulmonary Disease (COPD) patients:

1. Age more than 40 years
2. Active or former smokers, with a smoking history of more than ten pack years
3. Continuous symptoms of cough/sputum and/or dyspnea on exertion
4. No history of asthma
5. Forced expiratory volume in one second (FEV1)/Forced Vital Capacity (FVC) less than 70% and FEV1 between 50 and 80% predicted

Controls:

1. No history of asthma or COPD
2. PC20 MCh more than 8 mg/ml
3. FEV1/FVC more than 70% and FEV1 more than 90% predicted

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Not Specified

Key exclusion criteria

1. Age less than 18 years
2. Inability to perform acceptable-quality spirometry or to understand directions given by personnel
3. Severe airflow limitation (FEV1 less than 50% of predicted or less than 1.0 L)
4. Heart attack or stroke in last three months
5. Uncontrolled hypertension, systolic Blood Pressure (BP) more than 200 mmHg, or diastolic BP more than 100 mmHg
6. Known aortic aneurysm
7. Pregnancy
8. Nursing mothers
9. Current use of cholinesterase inhibitor medication (for myasthenia gravis)

Date of first enrolment

01/09/2006

Date of final enrolment

31/08/2007

Locations

Countries of recruitment

Netherlands

Study participating centre

Head Department of Respiratory Medicine

Groningen

Netherlands

9700 RB

Sponsor information

Organisation

University Medical Center Groningen (UMCG) (The Netherlands)

ROR

<https://ror.org/03cv38k47>

Funder(s)

Funder type

Industry

Funder Name

Pharmaxis Ltd.

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration