Genome wide association study on remission of asthma

Published: 22-03-2011
Last updated: 04-05-2024

Main objective: Perform a genome wide association analysis on remission of asthma in a cohort of subjects who were previously diagnosed as having asthma. Secondary objective: Perform genetic association studies between asthma remission and (pathways...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Bronchial disorders (excl neoplasms)
Study type	Observational non invasive

Summary

ID

NL-OMON36808

Source
ToetsingOnline

Brief title
GWAs on asthma remission

Condition

- Bronchial disorders (excl neoplasms)

Synonym
asthma

Research involving
Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Groningen
Source(s) of monetary or material Support: Stichting astma bestrijding

Intervention

Keyword: asthma, GWAs, remission

Outcome measures

Primary outcome

Presence of complete asthma remission: no current asthma symptoms (asthma attacks, wheeze), no current use of asthma medication, FEV1 pre bronchodilator > 80% predicted, no bronchial hyperresponsiveness (PC20 histamine > 32 mg/ml). Associations between the single nucleotide polymorphisms genotyped in the GWA study and the presence of complete asthma remission will be studied using logistic regression analysis.

Secondary outcome

NA

Study description

Background summary

Recently, we have shown that some asthmatics show complete asthma remission in adulthood. Investigating the mechanisms leading to this spontaneous remission of asthma may provide new avenues for better understanding of asthma remission and may eventually lead to new intervention strategies. In 2008 we have started a genome wide association study (GWAs) on asthma. Some of the patients in this GWA study will now be in complete asthma remission.

Study objective

Main objective: Perform a genome wide association analysis on remission of asthma in a cohort of subjects who were previously diagnosed as having asthma. Secondary objective: Perform genetic association studies between asthma remission and (pathways of) candidate genes.

Study design

A follow-up study on all asthmatic participants of the GWA study on asthma. Participants have to fill in a postal questionnaire and those subjects in clinical remission (no asthma symptoms and no use of asthma medication) will be invited to the UMCG to perform spirometry and a histamine provocation test.

Study burden and risks

This study will provide insight in the mechanisms leading to asthma remission. This has no personal benefit to the individual participant, however it will be important for future putative preventive measures or intervention to cure asthma. The burden to the individual participant will be performing spirometry and a histamine challenge test. This implies that the person may experience some breathlessness that will fade away immediately after giving a bronchodilator. However, since these individuals will most likely not respond at all, they will not have any side effect whatsoever.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

1. Age 18 years or older.
2. Previous diagnosis of asthma
3. Included in the GWA-study on asthma ;Additional inclusion criteria for the performance of spirometry and a histamine provocation test:
4. No current asthma symptoms
5. No use of asthma medication

Exclusion criteria

1. Presence of serious concomittant diseases
2. Pregnancy
Additional exclusion criterium for histamine provocation testing:
3. FEV1 lower than 1.2 L

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	01-06-2011
Enrollment:	119
Type:	Actual

Ethics review

Approved WMO Date:	22-03-2011
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Groningen (Groningen)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL34958.042.10