

Markers of airway inflammation in auto-immune hyperthyroidism; the interaction between thyroid and airways

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Hypothesis: In auto-immune hyperthyroidism there is an increase of (eosinophil) airway inflammation compared to healthy test subjects. Objective: testing our hypothesis by answering the following questions: 1. What is the difference in NO in exhaled air...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Thyroid gland disorders
Study type	Observational non invasive

Summary

ID

NL-OMON29897

Source

ToetsingOnline

Brief title

Airway-inflammation in auto-immune hyperthyroidism

Condition

- Thyroid gland disorders
- Bronchial disorders (excl neoplasms)

Synonym

asthma, hyperthyroidism, thyroid dysfunction

Research involving

Human

Sponsors and support

Primary sponsor: Medisch Centrum Leeuwarden

Source(s) of monetary or material Support: wetenschapsfonds MCL wordt benaderd

Intervention

Keyword: airway inflammation, Hyperthyroidism, NO

Outcome measures

Primary outcome

NO in exhaled air

Secondary outcome

Score of respiratory questionnaire

Spirometry: FEV1, FVC

Study description

Background summary

Respiratory symptoms are more common in patients with thyroid disease. Other conditions, like allergy's, are also known to be related to thyroid dysfunction. In auto-immune hyperthyroidism there might be more activated inflammatory cells, what leads to airwayinflammation. NO is a known and sensitive marker of airwayinflammation.

Study objective

Hypothesis:

In auto-immune hyperthyroidism there is an increase of (eosinophil)airwayinflammation compared to healthy test subjects.

Objective:

testing our hypothesis by answering the following questions:

1. What is the difference in NO in exhaled air between patients with hyperthyroidism and healthy subjects?
2. What are the differences in respiratory symptoms and lungfunction between patients with hyperthyroidism and healthy subjects?
3. Are respiratory symptoms en lungfunction abnormalities in patients with auto-immune hyperthyroidism related to the ammount of NO in exhaled air?

Study design

In this prospective study 6 patients with hyperthyroidism (M Graves) and 6 healthy test subjects will be included. After receiving informed consent, a number of extra tests will be performed after the usual analysis in hyperthyroidism.

A respiratory questionnaire will be taken. A spirometry will be performed and NO in exhaled air will be measured. The patients with hyperthyroidism will be compared to the healthy subjects.

Study burden and risks

Subjects fill out a respiratory questionnaire, spirometry will be performed and NO in exhaled air will be measured. This will take about 1 hour. There are no risks for the subjects involved.

Contacts

Public

Medisch Centrum Leeuwarden

Henri Dunantweg 2
8934 AD Leeuwarden
Nederland

Scientific

Medisch Centrum Leeuwarden

Henri Dunantweg 2
8934 AD Leeuwarden
Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

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

Inclusion criteria

age >18 jaar
Patients with hyperthyroidism/M Graves
matched healthy test subjects

Exclusion criteria

known history of pulmonary disease
known allergy
use of bronchodilating medication
use of betablockers
use of corticosteroids
pregnancy
Known other auto-immune disease

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):	01-09-2006
Enrollment:	12
Type:	Actual

Ethics review

Approved WMO

Date: 26-09-2006

Application type: First submission

Review commission: RTPO, Regionale Toetsingscie Patientgebonden Onderzoek (Leeuwarden)

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	NL13837.099.06