VO2max in healthy children and children with asthma

Published: 05-02-2013 Last updated: 26-04-2024

Compare VO2max between healthy children and children with asthma

Ethical review	Not approved
Status	Will not start
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON36883

Source ToetsingOnline

Brief title VO2max in healthy children and children with asthma

Condition

• Other condition

Synonym endurance, physical exercise

Health condition

conditieniveau

Research involving Human

Sponsors and support

Primary sponsor: Medisch Centrum Leeuwarden **Source(s) of monetary or material Support:** Wetenschapsfonds van het Medisch Centrum Leeuwarden

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Intervention

Keyword: asthma, children, VO2max

Outcome measures

Primary outcome

VO2max of healthy children compared to that of children with asthma

Secondary outcome

Correlation of VO2max and cortisol response (NL 37156.000.11).

Study description

Background summary

We recently demonstrated that children with asthma have significant lower salivary cortisol levels compared to healthy prepubertal children]. It is unknown whether this finding has clinical relevance. It remains unclear whether the adrenal response is attenuated due to the chronic inflammation or due to the lower endurance of the children with asthma. If the chronic inflammation is the cause what is the effect of treatment with inhaled corticosteroids. In addition, is the lower endurance the effect of their asthma or the effect of an attenuated adrenal response?

Study objective

Compare VO2max between healthy children and children with asthma

Study design

Intervention study

Intervention

Maximal exercise test according to a standardized protocol. During the exercise test oxygen uptake wil be measured with a breathanalyser Pulse and oxygen saturation will be continously monitored.

Study burden and risks

We do not expect any additional risk for the children since they all play community sports and are used to performing exercise.

Contacts

Public

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age Children (2-11 years)

Inclusion criteria

Children who participated in the NL 37156.000.1 study will be asked to participate. The healthy children can be included if they are prepuberal and have no restrictions for performing an exercise test ;The children with astham can be included if they have stable asthma

and have not been treated with systemic steroids in the previous three months and have no restrictions for performing an exercise test (and do not routinely use salbutamol before exercise)

Exclusion criteria

If informed consent is not given

if exercise tests are contraindicated due to the physical condition or asthma as judged by the paediatrician

if the child does not want to cooperate during the test or wants to stop the test

Study design

Design

Study type: Interventional	
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Diagnostic

Recruitment

NL	
Recruitment status:	Will not start
Enrollment:	40
Туре:	Anticipated

Ethics review

Not approved	
Date:	05-02-2013
Application type:	First submission
Review commission:	CCMO: Centrale Commissie Mensgebonden Onderzoek (Den Haag)

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 CCMO ID NL42187.000.12