The effects of birth after 32-36 weeks of pregnancy on the lung function of children at the age of 12

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON26209

Source Nationaal Trial Register

Brief title Follow up study PINKELTJE-cohort

Health condition

Preterm birth (prematuriteit) Asthma (astma) Lung function (longfunctie) Exercise capacity (inspanningscapaciteit) Lung Clearance Index (LCI)

Sponsors and support

Primary sponsor: UMCG **Source(s) of monetary or material Support:** SAB (Stichting Astma Bestrijding)

Intervention

Outcome measures

Primary outcome

Spirometrie : FVC, FEV1, FEV1/FVC, FEF25, FEF50, FEF75, PEF

Ergometire : Hartfrequentie, ademhalingsfrequentie, maximalebelasting, VO2rust, maximale ademfrequentie, VT, VTmax, VEmax, ventilatoire reserve, VO2 op de anaerobe drempel (AD), VO2max, AD, AD/VO2, ΔVO2/ΔWR, respiratory exchange ratio, Borg score

LCI : LCI, Scon, Salv

Secondary outcome

no

Study description

Background summary

There has been much research into lung problems in extremely preterm children. A "forgotten group" is the group of children born between 32 and 36 weeks gestation. Research shows that at age 5, these children do indeed have respiratory symptoms, and report a doctor's diagnosis of asthma more often. This study is to determine how these children are at the age of 12 in the respiratory field. To investigate this, we use questionnaires, LCI, spirometry and exercise testing.

Study objective

The hypothesis is that modarate and late preterm infants at age 12 reported more symptoms consistent with asthma and use more asthma medications, as well as a poorer lung function, exercise capacity and Lung Clearance Index than healthy peers.

Study design

March 2014: authorization procedure Metc

September 2014: Sending information letters to parents

September 2015- January 2015: Planning and performing measurements

January 2015: analyze data

Intervention

Questionnaires (general, ISAAC, PAQ C)

Ergometrie

Spirometrie

Lung Clearance Index

Contacts

Public

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Eligibility criteria

Inclusion criteria

Research group

- Born between 32 and 36 +6 weeks of gestation

- From one of the three northern provinces (Drenthe, Groningen and Friesland)

Control group

- Born after 37 weeks gestation
- From one of the three northern provinces (Drenthe, Groningen and Friesland)

Exclusion criteria

Research group

- Duration of pregnancy precisely determined by ultrasound
- Physical inability to carry out fietsergometrietest
- Birth Defects
- Illness or fever at the time of measurement

Control group:

- Duration of pregnancy is not exactly determined by ultrasound
- Physical inability to carry out fietsergometrietest
- Birth Defects
- Use of bronchodilators
- Illness or fever at the time of measurement

Study design

Design

Study type: Intervention model: Observational non invasive Parallel

Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-09-2014
Enrollment:	80
Туре:	Anticipated

Ethics review

Not applicable	
Application type:	Not applicable

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
NTR-new	NL4444
NTR-old	NTR4567
Other	: not yet available

Study results