

# Amsterdam Born Children and their Development Study

Published: 21-09-2015

Last updated: 19-04-2024

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<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Other condition
<b>Study type</b>	Observational invasive

## Summary

### ID

NL-OMON42761

### Source

ToetsingOnline

### Brief title

ABCD-study

### Condition

- Other condition

### Synonym

health and development

### Health condition

gezondheid en ontwikkeling van kinderen

### Research involving

Human

## Sponsors and support

**Primary sponsor:** AMC

**Source(s) of monetary or material Support:** Ministerie van OC&W, ZonMW, Sarpahiti Institute, Europese Unie

## Intervention

**Keyword:** birth cohort, development, longitudinal, multi-ethnic

## Outcome measures

### Primary outcome

The primary study parameters are the development of growth trajectories, cardiovascular health, metabolic health, psychosocial health and cognition.

### Secondary outcome

Important themes related to these outcomes are nutrition, environmental factors, physical fitness and activity, sedentary behaviour, sleep behaviour and genetic predisposition.

## Study description

### Background summary

The ABCD - Amsterdam Born Children and their Development - study is a longitudinal multi-ethnic birth cohort examining the association between maternal lifestyle, medical, psychosocial and environmental conditions during pregnancy and children's health at birth as well as in later life. Specific attention is paid to ethnic and socioeconomic disparities in child health and development. The ABCD-study was established in 2003 to increase our knowledge in health inequalities and related determinants from the earliest age onwards. After years of extensive data collection, the children participating in the ABCD-study are now 11-12 years old. The last major data collection period was at the age of 5-6 years. To continue our study, we wish to collect data on physical measurements including anthropometry, cardiovascular function, physical fitness, metabolic profile and genetic predisposition. The age of 11-12 years is important in child development because at this age, children are

in the pre-pubertal stage.

## **Study objective**

Objectives of phase 4 of the ABCD-study are

- (i) to follow-up on growth trajectories during childhood and identify lifestyle, environmental and genetic factors that influence these trajectories;
- (ii) to follow-up on cardiometabolic health during childhood and identify lifestyle, environmental and genetic factors that influence this;
- (iii) to follow-up on psychosocial health during childhood and identify lifestyle, environmental and genetic factors that influence this;
- (iv) to follow-up on cognitive development during childhood and identify lifestyle, environmental and genetic factors that influence this;
- (v) to identify ethnic and socioeconomic differences in the above stated associations

## **Study design**

The ABCD-study is a multi-ethnic prospective birth cohort study.

## **Study burden and risks**

The current study is an observational study and therefore no adverse/serious adverse events are expected. There is no direct benefit of this study to the participants. The participants will participate in a health check-up where blood samples will be collected. Other tests will be non-invasive, including measurements of anthropometry, physical fitness and cardiovascular function. Moreover during one week physical activity and sleep patterns will be monitored with an accelerometer. The risks involved in these measurements are negligible and the burden is minimal. The measurements were conducted when the children were 5-6 years of age. Long-term follow-up and data analysis is only possible if measurements are repeated during childhood in a standardised way.

## **Contacts**

### **Public**

AMC

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### **Scientific**

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## **Trial sites**

### **Listed location countries**

Netherlands

## **Eligibility criteria**

### **Age**

Adolescents (12-15 years)

Adolescents (16-17 years)

Adults (18-64 years)

Children (2-11 years)

Elderly (65 years and older)

### **Inclusion criteria**

Singleton children whose mothers were recruited in Amsterdam during their pregnancy. These children must have been a participant in the initial study population of the ABCD-study.;Biological parents of these children.

### **Exclusion criteria**

Children born to mother\*s who did not participate in the ABCD-study during phase 1. Additionally, of the children born to mother\*s who did participate in the ABCD-study, all multiples and those whose parents do not give informed consent for the health check will be excluded. Additionally those children who do not give consent will be excluded.;Parents of the children, who are not the biological parents.

## **Study design**

## Design

**Study type:** Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Other

## Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 20-10-2015

Enrollment: 2000

Type: Actual

## Ethics review

Approved WMO

Date: 21-09-2015

Application type: First submission

Review commission: METC Amsterdam UMC

## 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**

NL53940.018.15