# Physical fitness of children with a moderate to severe intellectual disability

Published: 13-12-2013 Last updated: 22-04-2024

The objective is to examine the physical fitness of children with moderate to severe

intellectual disability.

Ethical reviewApproved WMOStatusRecruitment stoppedHealth condition typeOther condition

**Study type** Observational non invasive

## Summary

#### ID

NL-OMON38815

Source

ToetsingOnline

**Brief title** 

Fitness children ID

#### **Condition**

- Other condition
- Neurological disorders congenital
- Cognitive and attention disorders and disturbances

#### **Synonym**

endurance, physical fitness

#### **Health condition**

verstandelijke beperking

#### **Research involving**

Human

### **Sponsors and support**

**Primary sponsor:** Erasmus MC, Universitair Medisch Centrum Rotterdam **Source(s) of monetary or material Support:** via zorgorganisatie Reinaerde

#### Intervention

Keyword: Children, Epidemiology, Intellectual disability, Physical fitness

#### **Outcome measures**

#### **Primary outcome**

The main parameter is physical fitness. This consists of four components: body composition (height, weight, waist circumference), muscle strength (standing long jump, throwing a bag), muscular endurance (stair climbing) and cardiorespiratory endurance (6-minute walk test).

#### **Secondary outcome**

In addition, the motor and cognitive developmental age, lifestyle (nutrition and physical activity), functional independence and characteristics of the participants are assessed.

# **Study description**

#### **Background summary**

Increasing physical fitness leads to health benefits. A limited number of studies, with small sample sizes and specific characteristics, shows that children with an intellectual disability (ID) seems to be less fit than their peers. Measuring physical fitness in these children with ID is more difficult than in children without disabilities and little research has been done with feasible and reliable methods.

#### **Study objective**

The objective is to examine the physical fitness of children with moderate to

severe intellectual disability.

#### Study design

This is a cross-sectional study with a pilot study to determine the feasibility and reliability of fitness tests to be used.

#### Study burden and risks

The study population has specific characteristics. Therefore the objective can only be assessed by conducting the research in this population. Participation in this study brings along negligible risks. The fitness tests do not require maximum effort and are conducted and supervised by professionals who have experience with the study population and the tests.

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## **Contacts**

#### **Public**

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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) Children (2-11 years)

#### Inclusion criteria

- age 2-18 year
- able to walk independently (possible with walking aid like orthopedic shoes or walker)
- moderate to severe intellectual disbality
- completed physical activity readiness questionnaire (PARQ)
- informed consent of both parents or gardian

#### **Exclusion criteria**

- behavioral problems that might worsen by participating in this study
- medical problems that might worsen by participating in this study

# Study design

## **Design**

Study type: Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

#### Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 24-02-2014

Enrollment: 204

Type: Actual

## **Ethics review**

#### Approved WMO

Date: 13-12-2013

Application type: First submission

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam

(Rotterdam)

Approved WMO

Date: 20-02-2015 Application type: Amendment

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam

(Rotterdam)

# **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 NL44974.078.13

# **Study results**

Date completed: 01-02-2016

Actual enrolment: 133