

# Gait in adults with intellectual disabilities

Published: 10-06-2014

Last updated: 20-04-2024

The objective is to assess the gait characteristics of adults with intellectual disabilities by other causes than Down syndrome, and without diagnosed neurological conditions (Parkinson's disease, cerebrovascular accident, dementia, and...

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

## Summary

### ID

NL-OMON40839

### Source

ToetsingOnline

### Brief title

Gait adults ID

### Condition

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

### Synonym

gait, walking

### 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 de zorgorganisaties Ipse de Bruggen; Abrona en Amarant

## Intervention

**Keyword:** Adults, Epidemiology, Gait, Intellectual disability

## Outcome measures

### Primary outcome

The primary study parameters are the spatial (distance-related) and temporal (time-related) gait parameters, measured with the GAITRite during walking at comfortable speed with and without a dual task, and at maximal speed.

### Secondary outcome

The secondary study parameters are the number of falls that the participant experienced during the three months after the measurements, physical fitness levels, anxiety regarding falls, and a number of personal characteristics.

## Study description

### Background summary

In the general population, gait abnormalities are an important risk factor for negative health outcomes such as, falling, immobility, disability, morbidity, and mortality. Gait is considered a marker of global health. In clinical practice, gait abnormalities are commonly seen in people with intellectual disabilities. A high incidence of falls is also seen in people with intellectual disabilities. However, little is known about the gait characteristics of people with intellectual disabilities, and the relationship between these characteristics and falls.

### Study objective

The objective is to assess the gait characteristics of adults with intellectual

disabilities by other causes than Down syndrome, and without diagnosed neurological conditions (Parkinson's disease, cerebrovascular accident, dementia, and cerebral palsy), and the relation between these gait characteristics and falls, physical fitness, and attention.

### **Study design**

This is a cross-sectional, non-invasive study.

### **Study burden and risks**

The study population has specific characteristics. Therefore the objective can only be assessed by conducting the study in this population. Participation in this study brings along negligible risks. The measurements require little effort and are conducted and supervised by professionals who have experience with this study populations and can assure safety.

## **Contacts**

### **Public**

Erasmus MC, Universitair Medisch Centrum Rotterdam

Wytemaweg 80  
Rotterdam 3015CN  
NL

### **Scientific**

Erasmus MC, Universitair Medisch Centrum Rotterdam

Wytemaweg 80  
Rotterdam 3015CN  
NL

## **Trial sites**

### **Listed location countries**

Netherlands

## **Eligibility criteria**

## Age

Adults (18-64 years)

Elderly (65 years and older)

## Inclusion criteria

- minimal age of 20 years
- mild (IQ = 50-69) to moderate (IQ = 35-49) intellectual disability
- able to have a conversation and understand instructions
- able to walk at least 40 meters independently
- informed consent

## Exclusion criteria

- Diagnosis of Down syndrome, Parkinson's disease, cerebrovascular accident, dementia, or cerebral palsy
- severe visual impairment ( $<0.3$ )

## 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): 20-11-2014

Enrollment: 130

Type: Actual

## Ethics review

Approved WMO	
Date:	10-06-2014
Application type:	First submission
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	NL48085.078.14

## Study results

Date completed:	19-11-2015
Actual enrolment:	32