

# The use of low vision aids in children with a visual impairment: The influence of motor aspects.

No registrations found.

<b>Ethical review</b>	Positive opinion
<b>Status</b>	Pending
<b>Health condition type</b>	-
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON20067

### Source

Nationaal Trial Register

### Health condition

Children with a visual impairment

## Sponsors and support

**Primary sponsor:** Research team Bartimeus Zeist

**Source(s) of monetary or material Support:** ODAS

De Look 25

2635 GE Den Hoorn

Bartiméus Stichting

Postbus 340

3940 AH DOORN

## Intervention

## Outcome measures

### Primary outcome

The dependent variable is the performance on a task that measures goal directed arm movements (before and after the magnifier training). Both time and accuracy will be analyzed. The goal directed movements are registered with a wacom tablet, that measures x,y-coordinates over time.

### **Secondary outcome**

The performance of the children will be recorded by camera, in order to analyse work posture.

## **Study description**

### **Background summary**

The study investigates the use of low vision aids in children with a visual impairment, especially the influence of motor aspects. First, the study investigates the development of motor skills (goal directed arm movements) in children with a visual impairment compared to normally sighted peers. Second, the study investigates the influence of motor skill performance on the ability to use a magnifier. Finally, effect of a magnifier training on the performance of goal directed movements will be measured.

### **Study objective**

The first aim of this study is to evaluate the development of motor skills (goal directed arm movements) in children with a visual impairment compared to normally sighted peers. Our hypothesis is that children with a visual impairment have poorer motor skills compared to their normally sighted peers. The second aim of the study is to evaluate the influence of motor skill performance on the ability to use a magnifier. Our hypothesis is that poorer motor skills limit the ability of magnifier use.

### **Study design**

Measuring points:

1. May 2010-july 2010: Collecting data normally sighted children;
2. September 2010-okt 2010: Collecting data (pre-measures) children with a visual impairment;
3. Okt-nov 2010: Intervention takes place;
4. Nov-jan 2010: Collecting post measures.

## Intervention

The study investigates the effect of an evidence based magnifier training on the performance of goals directed arm movements in visually impaired children. In november and december 2010 the visually impaired children will receive an intervention. This intervention takes place over 6 weeks. Children will be visited at home by a trainer. During 6 weeks, 12 half hour sessions will take place.

## Contacts

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## Eligibility criteria

### Inclusion criteria

1. Children aged 3 to 8 years;
2. Visually impaired children (vision 0.05
3. No additional impairments;
4. Duration of pregnancy > 36 weeks.

### Exclusion criteria

1. Visual acuity <0.05 or >0.3;

2. Additional (motor, intellectual) impairments;
3. Duration of pregnancy < 36 weeks.

## Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

### Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-05-2010
Enrollment:	60
Type:	Anticipated

## Ethics review

Positive opinion	
Date:	15-06-2010
Application type:	First submission

## Study registrations

### Followed up by the following (possibly more current) registration

ID: 35171  
Bron: ToetsingOnline  
Titel:

## Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register	ID
NTR-new	NL2254
NTR-old	NTR2380
CCMO	NL26835.091.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON35171

## Study results

### Summary results

N/A