

# Effects of age on balance control: balancing on a narrow ridge

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Determine norm values for able bodied people on a balance test also suitable for lower limb amputees

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

## Summary

### ID

NL-OMON31083

### Source

ToetsingOnline

### Brief title

Effects of age on balance control

## Condition

- Other condition

### Synonym

age

### Health condition

effects of age on balance control

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Groningen

**Source(s) of monetary or material Support:** Ministerie van OC&W

## Intervention

**Keyword:** age, balance control

## Outcome measures

### Primary outcome

The main outcome measures for the balance tasks are CoP and CoM displacement, as well as time in balance and ridge width.

### Secondary outcome

not applicable

## Study description

### Background summary

The decline in postural control is a substantial health problem among the elderly population. Considering that the majority of lower limb amputees are geriatric this poses a particular problem. For elderly amputees, balance control is a crucial factor in regaining mobility. A reliable assessment of balance control is therefore very important for the prediction of the recovery process and the choice of most efficient treatment and rehabilitation programs. However, despite the great variety of balance tests, existing tests are of very limited usability for the assessment of postural stability in lower limb amputees, mainly due to their reliance on two sound legs.

### Study objective

Determine norm values for able bodied people on a balance test also suitable for lower limb amputees

### Study design

Cross-sectional study

### Study burden and risks

During the balance tasks the subjects are secured by a safety harness attached to the ceiling. The time expenditure for the single test session won't exceed a

maximal duration of \* hour.

## Contacts

### **Public**

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## Trial sites

### **Listed location countries**

Netherlands

## Eligibility criteria

### **Age**

Adults (18-64 years)

Elderly (65 years and older)

### **Inclusion criteria**

between 20 and 80 years old

### **Exclusion criteria**

addiction to drugs or alcohol

serious visual problems (visual problems that can not be corrected to normal by the use of glasses)

neurological problems or other diseases that interfere with equilibrium  
use of antipsychotic, sedative or antidepressant drugs (except amitriptyline)  
otitis media  
cerebral vascular accident  
pregnancy  
amblyacousia

## Study design

### Design

**Study type:** Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

### Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-04-2007

Enrollment: 66

Type: Anticipated

## Ethics review

Approved WMO

Date: 05-04-2007

Application type: First submission

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

## 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	NL16879.042.07