

# A new method to objectively observe the function of orthopaedic patients.

No registrations found.

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

## Summary

### ID

NL-OMON26175

### Source

NTR

### Brief title

N/A

### Health condition

1. Accelerometer;
2. function assessment;
3. orthopaedic patients.

## Sponsors and support

**Primary sponsor:** Cooperation of the Atrium Heerlen Orthopaedic Research and Scientific Education (AHORSE) and the department Movement Science of the University of Maastricht.

**Source(s) of monetary or material Support:** fund = initiator  
No financial funding. The study is a first flow of funds research.

## Intervention

## Outcome measures

### Primary outcome

The possibility to determine the function of orthopaedic patients with a triaxial accelerometer. The acceleration signals are analysed using algorithms programmed in matlab. Important parameters are gait parameters (frequency, speed, step time, asymmetry, regularity, up down displacement) and balance parameters (postural sway, trunk angles, angel velocities, root mean squares).

## **Secondary outcome**

N/A

# **Study description**

## **Background summary**

A new objective functional assessment tool is needed to analyse the patients of today which have higher functional requirements compared with 20 years ago. This study will use a triaxial accelerometer to observe the mobility in orthopedic patients during the polyclinic visits.

## **Study objective**

N/A

## **Study design**

N/A

## **Intervention**

Measure function during polyclinical visits using a triaxial accelerometer:

walk 20m, balance on 1 leg, rise from and sit down onto a chair, step onto and down from a block. These tests takes about 10 minutes. The obtained data is compared with data of a healthy control group. Furthermore it will be validated with the usual observations of the doctor.

# **Contacts**

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## Eligibility criteria

### Inclusion criteria

All orthopaedic patients visiting the polyclinic of the orthopaedic department of the Atrium MC Heerlen.

### Exclusion criteria

1. Unable to perform the tasks:
  - a. walk 20m;
  - b. balance on one leg;
  - c. rise from and sit down onto a chair;
  - d. step onto and down from a block.

## Study design

### Design

Study type:	Interventional
Intervention model:	Other
Masking:	Open (masking not used)
Control:	N/A , unknown

## Recruitment

NL  
Recruitment status: Recruiting  
Start date (anticipated): 01-05-2007  
Enrollment: 50  
Type: Anticipated

## Ethics review

Positive opinion  
Date: 24-04-2007  
Application type: First submission

## 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
NTR-new	NL938
NTR-old	NTR963
Other	:
ISRCTN	incomplete

## Study results

### Summary results

One or two papers. Scientific presentations or posters.