

# Spatiotemporal properties of the flexion/extension movements of the cervical spine in patients with a chronic whiplash associated disorder and healthy controls

Published: 23-09-2009

Last updated: 11-05-2024

This study aims to investigate differences in spatiotemporal properties of the active movements in of the cervical spine in the sagittal plane in chronic WAD patients and healthy controls.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruiting
<b>Health condition type</b>	Bone and joint injuries
<b>Study type</b>	Observational non invasive

## Summary

### ID

NL-OMON34020

### Source

ToetsingOnline

### Brief title

cervical movement in patients with a chronic whiplash associated disorder

### Condition

- Bone and joint injuries

### Synonym

chronic whiplash syndrome, whiplash injuries

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Heliomare

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

## Intervention

**Keyword:** spatiotemporal properties, whiplash associated disorders

## Outcome measures

### Primary outcome

Primary study parameter is the amount of directional changes in movement acceleration of the head during four flexion/extension sequences.

### Secondary outcome

The secondary parameter is the outcome on the TAMPA Scale for Kinesiophobia.

## Study description

### Background summary

Although widely accepted in physiotherapy practice there is a dearth of evidence indicating that aberrant movement of the cervical spine is a clinical feature in chronic whiplash patients.

### Study objective

This study aims to investigate differences in spatiotemporal properties of the active movements in of the cervical spine in the sagittal plane in chronic WAD patients and healthy controls.

### Study design

A comparative observational study.

### Study burden and risks

No extra risks are associated with participation.

## Contacts

### **Public**

Heliomare

relweg 51  
1949 EC Wijk aan Zee  
Nederland

### **Scientific**

Heliomare

relweg 51  
1949 EC Wijk aan Zee  
Nederland

## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### **Age**

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

Patients with a chronic (> 12 weeks but less than one year) whiplash associated disorder type 2,3 (according to the Quebec Task Force classification on whiplash associated disorders) and a total score of 7 or more on the Neck Disability Index questionnaire. Healthy controls aged 18-65 years without neckpain 3 months prior to the study.

### Exclusion criteria

Serious spinal pathology and any condition, apart from the whiplash associated disorder, likely to affect active movements of the cervical spine.  
Healthy controls are excluded when they experienced any neck trauma.

## Study design

### Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Diagnostic

### Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	01-03-2010
Enrollment:	42
Type:	Actual

## Ethics review

Approved WMO	
Date:	23-09-2009
Application type:	First submission
Review commission:	METC Amsterdam UMC

## 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

CCMO

### ID

NL23187.029.08