

# The relation between armloads and shoulder muscle activation patterns.

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The aim of the current research is to investigate the effect of the magnitude of external load on shoulder muscle activation patterns of healthy subjects.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Pending
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON30935

### Source

ToetsingOnline

### Brief title

nvt

### Condition

- Other condition

### Synonym

Healthy

### Health condition

Schoudercoördinatie van gezonde proefpersonen

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Leids Universitair Medisch Centrum

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

## Intervention

**Keyword:** armload, coordination patterns, EMG

## Outcome measures

### Primary outcome

Principal action direction e.g. the direction in which a muscle is maximal active

### Secondary outcome

nvt

## Study description

### Background summary

Nowadays the possible relation between varying muscle activation patterns and varying external load is not taken into account. This might influence the results of patient measurements

### Study objective

The aim of the current research is to investigate the effect of the magnitude of external load on shoulder muscle activation patterns of healthy subjects.

### Study design

experimental study

### Intervention

The subject is asked to exert different external loads in 24 equidistant angles.

## Study burden and risks

There is a possibility of an allergic reaction due to the glue on the plaster. This possible reaction lasts for a short period of time. Furthermore there is a small chance on an inflammation due to the invasion of the wire-electrodes

## Contacts

### Public

Leids Universitair Medisch Centrum

dr. Albert Schweitzer str 27  
2861 XZ Bergambacht  
Nederland

### Scientific

Leids Universitair Medisch Centrum

dr. Albert Schweitzer str 27  
2861 XZ Bergambacht  
Nederland

## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

Healthy subject

Ages between 18 and 60

## Exclusion criteria

History of shoulder complaints  
History of shoulder surgery  
No signed informed consent

## Study design

### Design

**Study type:** Interventional

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Other

### Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-01-2007

Enrollment: 15

Type: Anticipated

## Ethics review

Approved WMO

Application type: First submission

Review commission: METC Leids Universitair Medisch Centrum (Leiden)

## 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	NL17062.058.07