

# Head repositioning accuracy and posturography related to cervical facet nerve blockade and spinal manipulative therapy in healthy volunteers: a feasibility study

Submission date	Recruitment status	<input type="checkbox"/> Prospectively registered
21/06/2007	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
05/11/2007	Completed	<input checked="" type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
10/06/2021	Nervous System Diseases	

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

### Contact name

Dr Lars Björndahl

### Contact details

Råsundavägen 101  
Solna  
Sweden  
16957

## Additional identifiers

### Protocol serial number

BL1SKHS

## Study information

### Scientific Title

Head repositioning accuracy and posturography related to cervical facet nerve blockade and spinal manipulative therapy in healthy volunteers: a feasibility study

## **Study objectives**

Three working hypotheses formed the basis for the project:

1. Unilateral facet nerve anaesthesia is expected to elicit disturbed Head Repositioning Accuracy (HRA) and decreased postural control in healthy subjects
2. Disturbed HRA and altered postural control would also be expected after Spinal Manipulative Therapy (SMT) in the cervical spine
3. The disturbances would be caused by abnormal afferent input from the joints

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

Ethics approval received from:

1. Institutional Review Board of the Scandinavian College of Chiropractic in May 2004 (ref: BL1SKHS)
2. Research Ethical Board of the Swedish Chiropractic Association in May 2007 (ref: BL1KFSFeK)

## **Study design**

This randomised, single-blinded feasibility study used some features adopted from the Single-Subject Research Design (SSRD), with multiple baseline measurements.

## **Primary study design**

Interventional

## **Study type(s)**

Other

## **Health condition(s) or problem(s) studied**

Neck proprioception and balance

## **Interventions**

All participants were subjected to unilateral facet nerve blockade (injection of a local anaesthetic) and cervical spinal manipulative chiropractic therapy. There was no control group in this trial. Instead, subjects acted as their own controls by using multiple baseline measurements.

## **Intervention Type**

Other

## **Phase**

Not Specified

## **Primary outcome(s)**

Cervical proprioceptive functions and static posture were assessed by examining HRA and Computerised Posturography (CPG), respectively.

Sequence of measurements for Group 1:

1. Four baseline measurements
2. One measurement immediately after facet blockade
3. One measurement 24 hours after facet blockade
4. One baseline measurement
5. One measurement immediately after cervical spinal manipulative chiropractic therapy

Sequence of measurements for Group 2:

1. Two baseline measurements
2. One measurement immediately after cervical spinal manipulative chiropractic therapy
3. One baseline measurement
4. One measurement immediately after facet blockade
5. One measurement 24 hours after facet blockade
6. Two baseline measurements

#### **Key secondary outcome(s)**

No secondary outcome measures

#### **Completion date**

10/09/2007

## **Eligibility**

#### **Key inclusion criteria**

Healthy volunteers.

#### **Participant type(s)**

Healthy volunteer

#### **Healthy volunteers allowed**

No

#### **Age group**

Not Specified

#### **Sex**

All

#### **Total final enrolment**

6

#### **Key exclusion criteria**

1. History of cervical trauma
2. Whiplash associated disorders
3. Recent problems with chronic neck pain

#### **Date of first enrolment**

21/05/2007

#### **Date of final enrolment**

10/09/2007

## **Locations**

#### **Countries of recruitment**

Sweden

## Study participating centre

Råsundavägen 101

Solna

Sweden

16957

## Sponsor information

### Organisation

Scandinavian College of Chiropractic (Sweden)

### ROR

<https://ror.org/023j1w312>

## Funder(s)

### Funder type

University/education

### Funder Name

Scandinavian College of Chiropractic (Sweden)

## Results and Publications

### Individual participant data (IPD) sharing plan

#### IPD sharing plan summary

Not provided at time of registration

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		01/03/2009	10/06/2021	Yes	No