

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

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

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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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? |
|---------------------------------|---------|--------------|------------|----------------|-----------------|
| Results article | | 01/03/2009 | 10/06/2021 | Yes | No |