

The role of leg length discrepancy in low back pain

Submission date 11/02/2011	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 03/03/2011	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 22/09/2015	Condition category Musculoskeletal 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

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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
The efficacy of correction of leg length discrepancy on low back pain among meat industry workers

Study objectives

Leg length discrepancy may be related to low back pain in occupations with prolonged walking and/or standing.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The Ethics Committee of South Ostrobothnia Central Hospital, 20/12/2006

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Low back pain

Interventions

Ultrasound is used to measure both legs of the participants and the leg length discrepancy (LLD) 5mm or more. We also ask if the participants have low back pain (LBP) scale 1-10. Then we randomise them in two groups.

In the intervention group the participants are given soles which correct 70% of LLD. In the control group the participants are given soles without correction. We ask questions (Oswestry, Roland -Morris, RAND, pain scales) at the beginning of the study and after 3, 6 and 12 months

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Intensity of low back pain (10 cm-VAS), measured at the beginning of the study and after 3, 6 and 12 months

Key secondary outcome(s)

1. Oswestry Disability
2. Roland-Morris Disability
3. RAND-36 Quality of Life

Measured at at the beginning of the study and after 3, 6 and 12 months

Completion date

05/02/2010

Eligibility

Key inclusion criteria

1. Any current low back pain [at least one on a 10-cm Visual Analog Scale (VAS)] and leg length discrepancy of at least 5 mm (measured with a laser-based method)
2. Workers with prolonged occupational standing and/or walking within meat industry (carvers and packers)
3. Exposure to occupational standing and/or walking of at least 10 years
4. Age 35 years or more

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

1. Any spinal red flags
2. Nerve root entrapment
3. Any previous leg fractures behind leg length discrepancy

Date of first enrolment

05/02/2009

Date of final enrolment

05/02/2010

Locations**Countries of recruitment**

Finland

Study participating centre

Hämeenpuisto 8B 15

Tampere

Finland

33210

Sponsor information**Organisation**

South Ostrobothnia Central Hospital (Finland)

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

South Ostrobothnia Central Hospital (EVO) (Finland)

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	results	07/05/2015		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes