The role of leg length discrepancy in low back pain

Submission date	Recruitment status No longer recruiting	Prospectively registered		
11/02/2011		☐ Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
03/03/2011		[X] Results		
Last Edited	Condition category	Individual participant data		
22/09/2015	Musculoskeletal Diseases			

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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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers 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

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

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 measure

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

Secondary outcome measures

- 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

Overall study start date

05/02/2009

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

Age group

Adult

Sex

Both

Target number of participants

All workers fullfilling inclusion criteria within one meat factory in South Ostrobothnia. 20 participants in the intervention group and 22 participants in the control group.

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)

Sponsor details

Huhtalantie 53, Seinäjoki Finland 60220

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hannu.puolijoki@epshp.fi

Sponsor type

Hospital/treatment centre

Website

http://www.epshp.fi/

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

South Ostrobothnia Central Hospital (EVO) (Finland)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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