

Does lateral malleolus posterior glide taping affect ankle evor muscle strength in recurrent ankle sprain?

Submission date

29/09/2006

Recruitment status

No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date

29/09/2006

Overall study status

Completed

☐ Statistical analysis plan

☐ Results

Last Edited

23/04/2015

Condition category

Injury, Occupational Diseases, Poisoning

☐ Individual participant data

☐ Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N0236164465

Study information

Scientific Title

Does lateral malleolus posterior glide taping affect ankle evertor muscle strength in recurrent ankle sprain?

Study objectives

To evaluate evertor muscle strength in recurrent ankle sprain and the effect of a taping technique.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled cross-over trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Injury, Occupational Diseases, Poisoning: Ankle sprain

Interventions

Concentric and eccentric peak torque of evertor muscles will be measured at a constant velocity using an isokinetic dynamometer, the Cybex 6000 machine (Cybex, 2100 Smithtown Avenue, PO Box 9003, Ronkonkoma, NY 11779-0903). The Cybex software calculates and displays measures of muscle activity, eg. Peak torque, muscle work. This has been chosen as the cybex provides a more sensitive measures of muscle strength than that of more crude manual muscle testing (Munn et al 2003). Subjects will be positioned on the machine in supine with the hip and knee of the tested limb secured at 90 degrees flexion. The foot will be secured on the foot plate with the ankle in neutral. Prior to testing, the CYBEX machine will be calibrated to the individual's end range of inversion and eversion.

The participants will be asked to complete a self-report functional questionnaire (adapted from de Bie et al 1997) which will determine the level of stability of the injured ankle. Both ankles of each subject will be tested, with the uninjured ankle acting as a control. Each ankle will be tested

under three different conditions. To avoid experimental bias, the order of intervention and which ankle to test first will be randomised using random numbers (names drawn out of a hat).

1. Without tape
2. With tape and LMPG (active intervention)
3. With tape placed on skin without tension (placebo)

The LMPG will be applied as described by Mulligan (1999). The glide will be held in place with rigid adhesive tape (Hetherington 1996). To ensure consistency, the same researcher will apply the mobilisation each time. This will also be the case for application of tape.

Preparation for the study including a small pilot will be completed in September 2004. Data collection for the study will take place from October 2004 to February 2005 with final interpreting and analysis in March/April 2005.

Final Report May 2005

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Measurements of torque (peak torque), power and muscle work will be determined using the cybex.

Secondary outcome measures

Not provided at time of registration

Overall study start date

07/10/2004

Completion date

01/07/2006

Eligibility

Key inclusion criteria

1. Healthy adult male and female subjects
2. Age 18-65
3. Who attend St Georges Hospital who have had a history of recurrent ankle sprain, on at least two occasions, with the most recent episode occurring more than 4 weeks ago
4. Unilateral functional ankle instability, assessed by a self-report functional questionnaire (adapted from de Bie et al 1997)

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Upper age limit

65 Years

Sex

Both

Target number of participants

20

Key exclusion criteria

1. Past history of orthopaedic surgery or fracture to the ankle
2. Any history of neurological conditions affecting balance or strength
3. Ankle pain at rest
4. Any known allergic reaction to tape

Date of first enrolment

07/10/2004

Date of final enrolment

01/07/2006

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

St George's Hospital Medical School

London

United Kingdom

SW17 0RE

Sponsor information

Organisation

Record Provided by the NHSTCT Register - 2006 Update - Department of Health

Sponsor details

The Department of Health, Richmond House, 79 Whitehall
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Sponsor type

Government

Website

<http://www.dh.gov.uk/Home/fs/en>

Funder(s)

Funder type

Government

Funder Name

St George's Healthcare NHS Trust (UK), NHS R&D Support Funding

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