

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

The effect of low power laser in the treatment of planter fasciitis

Protocol summary

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Summary

Plantar fasciitis has very important performance in the function of foot. The over stretching on this fascia causes inflammation and calcaneal pain. The aim of this study is to investigate the effect of low power laser on plantar fasciitis. This is a double-blinded randomized clinical trial. Fifty patients will refer to clinic of Fattemieh physiotherapy in Rafsanjan. They will be divided into two equal groups randomly. Two intervention of this study are low power laser (Gal Al As, 810nm, 100mV) and placebo. Severity of local pain, radicular pain, sensitivity to palpation and morning pain will be assessed in the 1st, 5th, 10th sessions. Main inclusion criteria are calcaneal pain, radicular pain and sensitivity to palpation. Main exclusion criteria are calcaneal fracture, rheumatoid arthritis and injection of corticosteroids.

Recruitment status

Recruitment complete

Funding source

Rafsanjan University of Medical Sciences

Expected recruitment start date

2010-02-09, 1388/11/20

Expected recruitment end date

2012-02-09, 1390/11/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of low power laser in the treatment of planter fasciitis

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138811093220N1**

Registration date: **2011-09-21, 1390/06/30**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-09-21, 1390/06/30

Registrant information

Name

Dadollah Shahimoridi

Name of organization / entity

Rafsanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 39 1822 0040

Email address

Public title

The effect of laser on planter fasciitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion: calcaneal pain; radicular pain; sensitivity to palpation; morning pain. Exclusion: calcaneal fracture; diabetes; rheumatoid arthritis; injection of corticosteroids during last month.

Age

From **20 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Rafsanjan University of Medical Sciences
Street address
Emam Ali street
City
Rafsanjan
Postal code
7717893591
Approval date
2009-12-12, 1388/09/21
Ethics committee reference number
851/20/9

Health conditions studied

1

Description of health condition studied
Plantar fasciitis
ICD-10 code
M72.2
ICD-10 code description
Plantar fasciitis fibromatosis

Primary outcomes

1

Description
Radicular pain
Timepoint
1st (before treatment), 5th and 10th sessions
Method of measurement
By question from patient

2

Description
Intensity of local pain
Timepoint
1st (before treatment), 5th and 10th sessions
Method of measurement

Through Visual Analogue Scale (VAS)

3

Description
Sensitivity to palpation
Timepoint
1st (before treatment), 5th and 10th sessions
Method of measurement
By press calcaneal area and question from patient

4

Description
Morning pain
Timepoint
1st (before treatment), 5th and 10 sessions
Method of measurement
By question from patient

Secondary outcomes

empty

Intervention groups

1

Description
Intervention 1: Low power laser (Gal AL AS, 810 nm, 100mv) is applied by 6 Joule and 3 minutes during 10 sessions on calcaneal pain area.
Category
Rehabilitation

2

Description
Control group (placebo): Laser set is on but intensity (dose) of device turn off and then applicator of set is applied on calcaneal area during 10 sessions and 3 minutes per session.
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Fatemieh physiotherapy
Full name of responsible person
Dadollah Shahimoridi
Street address
Moalem street, alley 17
City
Rafsanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Rafsanjan University of Medical Sciences

Full name of responsible person

Dr. Raza Vazirinejad

Street address

Emam Ali street

City

Rafsanjan

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Rafsanjan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Rafsanjan University of Medical Sciences

Full name of responsible person

Dadollah Shahimoridi

Position

Academic member

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty