

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation of the effect of low-intensity laser on lower limb neuropathic pain in patients with diabetes mellitus.

Protocol summary

Summary

The purpose of this study was to determine the effect of laser on lower extremity neuropathic pain in patients with diabetes. A total of 30 patients with peripheral polyneuropathy confirmed by using electro diagnostic tests and with diabetic neuropathy pain will be recruited and randomly assigned to receive an unreal laser as control group or actual laser (power 60 W), 6 times per week for 4 weeks. At the end of each week, pain intensity is measured by using VAS (Visual analogue scale) and compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201009203565N2**
Registration date: **2010-10-16, 1389/07/24**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-10-16, 1389/07/24

Registrant information

Name

Akbar Aliasgarzadeh

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1335 7850

Email address

asgharzadeha@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2009-07-23, 1388/05/01

Expected recruitment end date

2009-11-22, 1388/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of low-intensity laser on lower limb neuropathic pain in patients with diabetes mellitus.

Public title

Effect of laser on neuropathic pain control in patients with diabetes mellitus

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age more than 18 years, diabetic peripheral polyneuropathy confirmed by electrodiagnostic test, presence of pain with diabetic neuropathy Exclusion criteria: receiving Peripheral analgesic therapies during the study period, unstable systemic illnesses (such as malignancy, uncontrolled thyroid disease, heart failure, disorders in brain circulatory, hematopoietic system disorders, fever with unknown origin, active pulmonary TB), presence of other neurological disorders, presence of pain in other parts of the body, Pregnancy, presence of metal prostheses, drug or alcohol abuse, history of excessive sensitivity to light

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 30

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

Tabriz University of Medical Sciences

Street address

Glgshst street, Azadi Street, Tabriz

City

Tabriz

Postal code

Approval date

2010-09-29, 1389/07/07

Ethics committee reference number

5/4/4932

Health conditions studied

1

Description of health condition studied

Diabetes

ICD-10 code

E11

ICD-10 code description

Non-insulin-dependent diabetes mellitus

Primary outcomes

1

Description

Pain

Timepoint

Every week

Method of measurement

visual analogue scale (VAS)

Secondary outcomes

empty

Intervention groups

1

Description

The real low power laser: Ga.Al. Ars laser with wave length 630 nm

Category

Rehabilitation

2

Description

The unrealistic low power laser as placebo with a similar device but without the real laser

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital

Full name of responsible person

Akbar Aliasgharzadeha

Street address

Glgshst street, Azadi Street, Tabriz,

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Mohamad Jamshidi

Street address

Glgshst street, Azadi Street, Tabriz

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz 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**

Tabriz University of Medical Sciences

Full name of responsible person

Akbar Aliasgharzadeha

Position

Associate Professor, Educational Assistant of
Endocrinology department

Other areas of specialty/work**Street address**

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tabriz University of Medical Sciences

Full name of responsible person

Akbar Aliasgharzadeha

Position

Associate Professor, Educational Assistant
Section of Endocrinology

Other areas of specialty/work**Street address**

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Web page address**Person responsible for updating data****Contact****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