

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation of LASER therapy in treatment of peripheral neuropathy of diabetic patients referred to Imam Hossein Hospital

Protocol summary

Study aim

Evaluation of LASER therapy in the treatment of peripheral neuropathy of diabetic patients

Design

A control trial with a control group, with parallel groups, without blinding, randomized, on 60 patients, will use the online random number generation site for randomization.

Settings and conduct

The subjects will be referred to Imam Hossein Hospital in Tehran and will undergo laser therapy in 12 sessions of 15 minutes for each foot at intervals of one day. People undergoing laser treatment are unaware of the existence of the control group.

Participants/Inclusion and exclusion criteria

Inclusion criteria: peripheral neuropathy; satisfied with participating in this research. Exclusion criteria: other neurological diseases; people who underwent laser sessions for the purpose of recent cosmetic surgery.

Intervention groups

In the control group, patients with diabetic neuropathy do not receive laser therapy. Patients in the intervention group, receive laser therapy.

Main outcome variables

Reducing diabetic neuropathy in patients; reducing the complication of diabetic neuropathy such as amputation, improving the quality of life of diabetic patients with peripheral neuropathy.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201009048972N1**

Registration date: **2021-11-07, 1400/08/16**

Registration timing: **prospective**

Last update: **2021-11-07, 1400/08/16**

Update count: **0**

Registration date

2021-11-07, 1400/08/16

Registrant information

Name

sahar tavakkoli

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 3310 1479

Email address

sahartavakoli44@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-11-11, 1400/08/20

Expected recruitment end date

2021-12-11, 1400/09/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of LASER therapy in treatment of peripheral neuropathy of diabetic patients referred to Imam Hossein Hospital

Public title

Laser therapy in diabetic patient with neuropathy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Diabetic patients Peripheral neuropathy

Exclusion criteria:

No willingness to participate in the study; Other neurological diseases; People who underwent laser sessions for the purpose of recent cosmetic surgery.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

I will number the names of patients referred to the Imam Hossein hospital who have diabetes and are willing to participate in the research, and using an online random number generation site, I will select two groups of numbers as the control group and the patient.

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Shahid Beheshti University of Medical Science

Street address

No 193, Esmaili Alley , North Nabard Ave, Piroozi Ave

City

Tehran

Province

Tehran

Postal code

1765847145

Approval date

2019-06-24, 1398/04/03

Ethics committee reference number

IR.SBMU.MSP.REC.1398.277

Health conditions studied**1****Description of health condition studied**

Peripheral neuropathy in diabetic patients

ICD-10 code

E11.40

ICD-10 code description

Type 2 diabetes mellitus with diabetic neuropathy, unspecified

Primary outcomes**1****Description**

Peripheral neuropathy in diabetic patients

Timepoint

Before and after laser therapy

Method of measurement

Michigan neuropathy screening test and monofilament test

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Diabetic patients with peripheral neuropathy who undergo laser therapy with a wavelength between 650 to 810 nm three times a week for twelve sessions and each session for fifteen minutes per foot. The Noura instrument NIL IR105 laser device is made by Noura Layehnegar Company.

Category

Treatment - Other

2**Description**

Control group: Diabetic patients with peripheral neuropathy who are being treated with common neuropathic drugs including gabapentin or B1 300 but will not receive laser treatment.

Category

Treatment - Devices

Recruitment centers**1****Recruitment center****Name of recruitment center**

Imam Hossein Hospital in Tehran

Full name of responsible person

Sahar Tavakoli

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No 193, Esmaili Alley , Nabard Ave, Piroozi Ave

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shahid Beheshti University of Medical Sciences
Full name of responsible person
Mostafa Rezaii Tavirani
Street address
sixth floor . University Headquarters Building No
2.Shahid Beheshti University of Medical Sciences and
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Grant name

Grant code / Reference number

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

No

Title of funding source

Sahar Tavakoli

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Other

Person responsible for general inquiries

Contact

Name of organization / entity
Shahid Beheshti University of Medical Sciences
Full name of responsible person
Sahar Tavakoli
Position
Resident
Latest degree
Medical doctor
Other areas of specialty/work

Internal Medicine
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available