

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

Evaluation of low level laser therapy for patients with chronic cervical pain (non specific)

Protocol summary

Summary

With the aim of the effect of low-level laser therapy on patients with chronic cervical pain, patients referred to the specialized clinic of the hospital with a complaint of chronic neck pain over a period of more than three months who have no red flags (non-specific) are selected if they have tenderness on the spine and Also, they are included in the study if they do not have psychiatric symptoms, including sleep deprivation, and yellow fever, in the age range of 20 to 60 years. All patients are divided into two groups of case and control according to a random number table of 1: 1 ratio. The group assigned to the subject is buried buried in dark envelopes. This envelope will be opened by a doctor only after the initial assessment of each person, and neither patients nor clinical evaluators will be informed of their treatment group. Patients are randomly assigned into two groups of light and off laser, and other therapeutic protocols include exercises of the same patient as exercise and the same medicine. There are 22 patients in each group. In the laser group, using a 980nm low-power laser with a dose 16 Jules per square centimeter in the affected areas of the lining and the muscles of the vertebral column and upper trapezius are exposed 3 times a week for 12 sessions. The results will be evaluated on a weekly basis with a tenderness and painful bedside.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201706258146N21**

Registration date: **2017-08-18, 1396/05/27**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-08-18, 1396/05/27

Registrant information

Name

Mohammadreza Razaghi

Name of organization / entity

Laser application in medical sciences research center

Country

Iran (Islamic Republic of)

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+98 21 2271 8021

Email address

laser.cntr@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Laser Application Research Center in Medical Sciences, Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2017-03-21, 1396/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of low level laser therapy for patients with chronic cervical pain (non specific)

Public title

low level laser therapy in cervical pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Chronic cervical pain over 3 months without red flags (non-specific); Tenderness on the spine;

no symptoms of psychiatry including emotional sleep disorders and yellow fever (yellow flags); ages 20 to 60 Year . Exclusion criteria: Cranial pain with red flags; Psychopathological symptoms including emotional sleep disorders and yellow flags; over 60 and under the age of 20 years.

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **44**

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

Organizational committee of ethics in biomedical research Shahid Beheshti University of Medical Scie

Street address

Velenjak - Daneshjoo Blvar

City

Tehran

Postal code

Approval date

2016-03-20, 1395/01/01

Ethics committee reference number

IR.SBMU.RETECH.REC.1395.383

Health conditions studied

1

Description of health condition studied

chronic cervical pain

ICD-10 code

G54.2

ICD-10 code description

Cervical root disorders, not elsewhere classified

Primary outcomes

1

Description

Tenderness and painful motion

Timepoint

Weekly at the beginning and end of treatment

Method of measurement

VAS and DASD questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 980 nm low-power laser with a dose of 16 Jules per square centimeter

Category

Treatment - Other

2

Description

Control group: shame laser, other therapeutic protocols include patient education, exercise and medicine are similar.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Laser Application Research Center in Medical Sciences

Full name of responsible person

Dr.sirus Momenzadeh

Street address

Shohadaye Tajrish Hospital

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shahid Beheshti University of Medical Sciences

Full name of responsible person

Dr Afshin Zarghi

Street address

7th Floor, Bldg No.2 SBUMS, Arabi Ave, Daneshjoo Blvd, Velenjak, Tehran, Iran

City
Tehran

Grant name

Grant code / Reference number
-

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

Title of funding source
Vice chancellor for research, Shahid Beheshti 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
Laser Application Research Center in Medical Science

Full name of responsible person
Dr.Sirus Momenzadeh

Position
Anesthesiologist-Fellowship of pain

Other areas of specialty/work

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Person responsible for updating data

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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