

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Compare between non steroid anti inflammatory drugs Therapy and Different Dosage of low level laser therapy in acute Low Back Pain

Protocol summary

Summary

Goal: this study done to compare between anti inflammatory effects of two different doses of LLLT and NSAID therapy in patients with acute LBP, Design: Double-blind, randomized, placebo-controlled study. Material & method: study performed in four groups of acute LBP with radiculopathy is associated with pain and disability, group A is treated with analgesic dose of NSAID and active LLLT with 3 jole/cm², Group B with same doses of NSAID and active LLLT with 6 jole/cm², Group C with placebo LLLT and same dose of NSAID and group D only NSAID therapy. LLLT is applied behind the involved spine segments in six areas. patients treated 3 times per week for a total 12 treatments with following parameters, wavelength of 810 nm and doses of 3 and 6 jole/cm². Outcome is pain intensity measured with visual analogue scale in lumbar and leg segments and ODI Questionnaire of ADL. VAS measures before and after and with one week interval and ODI Questionnaire before and after treatments.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013042713146N1**

Registration date: **2013-10-09, 1392/07/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-10-09, 1392/07/17

Registrant information

Name

Maryam Hayati

Name of organization / entity

Tehran University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical Sciences

Expected recruitment start date

2013-06-22, 1392/04/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Compare between non steroid anti inflammatory drugs Therapy and Different Dosage of low level laser therapy in acute Low Back Pain

Public title

Compare between laser therapy and non steroid anti inflammatory drugs in acute low back pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: history of LBP less than 3 months; age range between 30-60 years old; no pregnancy; not having spinal surgery in recent years and not having systemic and psychological disorders Exclusion criteria: spondylosis; spinal stenosis; ,malignant inflammatory disorders; smoking and addiction.

Age

From **30 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **160**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Qazvin University of Medical Sciences

Street address

Bahonar bolvered, Qazvin University of Medical Sciences

City

Qazvin

Postal code

59811-34197

Approval date

2012-06-17, 1391/03/28

Ethics committee reference number

28/20/5985

Health conditions studied

1

Description of health condition studied

Acute low back pain

ICD-10 code

M51.2

ICD-10 code description

Other specified intervertebral disc displacement

Primary outcomes

1

Description

Pain

Timepoint

Before and after and with on week interval during treatment

Method of measurement

VAS scale

2

Description

Functional quality

Timepoint

Before and after intervention

Method of measurement

ODI questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

low level laser therapy with 3,6 joles on cm2 and placebo intervention

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Medical center of Qazvin University of Medical Sciences

Full name of responsible person

Dr Mahnaz Abbasi

Street address

opposite of Mehregan hospital,ferdosi avenue

City

Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Dr Mahnaz Abbasi

Street address

vice-chancellor research,Qazvin University of Medical Sciences

City

Qazvin

Grant name

Grant code / Reference number

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

Yes
Title of funding source
Qazvin 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

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Person responsible for updating data

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Web page address

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