

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 Jun 2026

### Assessment of the effectiveness of low level laser therapy on the post-operative pain in the patient with lumbar disk herniation

#### Protocol summary

##### Summary

**Objectives:** The aim of this study is the Assessment of the effectiveness of low level laser therapy on the post-operative pain in the patient with lumbar disk herniation . **Design:** Randomized clinical trial. **Setting and Conduct:** We study 60 patients referring for lumbar disc herniation surgery to Tabriz SHohada hospital in the form of two equal groups . Patients will randomly be assigned into one of two groups. We use Low Level Laser for one group and routine analgesic drugs for the other group, the pain in the patients was assessed by Visual Analogue Scale(VAS) in each group and was compared to each other. **Participants including major eligibility criteria:** Patients referring for lumbar disc herniation surgery at the age range of 20 to 50 years will enroll into the study. Patients with chronic usage of any drugs, history of diabetes, surgical infectious wound due to any reason and history of relapsed herniation will be excluded. **Intervention:** After randomly assigning into two groups we use low level laser therapy for one group and routine analgesic drugs for the other group. **Main outcome measures (variables):** Post operative pain.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013052612853N1**

Registration date: **2013-07-01, 1392/04/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-07-01, 1392/04/10

##### Registrant information

**Name**

Mohammad Shimia

##### Name of organization / entity

Tabriz University of Medical Sciences and Health services

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 1336 7774

##### Email address

shimia@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Tabriz University of Medical Sciences

##### Expected recruitment start date

2012-03-20, 1391/01/01

##### Expected recruitment end date

2012-12-20, 1391/09/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Assessment of the effectiveness of low level laser therapy on the post-operative pain in the patient with lumbar disk herniation

##### Public title

Assessment of the effectiveness of low level laser therapy on the post-operative pain in the patient with lumbar disk herniation

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: 1-Being at the age between 20-50 years; 2-Consent for the research. Exclusion criteria: 1- History Diabetes; 2-History of chronic usage of any drug

in the past 6 months; 3-Patients undergoing the surgery due to relapse of lumbar disc herniation; 4-Patients with surgical infectious wound due to any cause.

#### Age

From **20 years** old to **50 years** old

#### Gender

Both

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **60**

#### Randomization (investigator's opinion)

Randomized

#### Randomization description

#### 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 Tabriz University of medical sciences and health services

##### Street address

Central office of Tabriz university of medical sciences, Golgasht street, Azadi street.

##### City

Tabriz

##### Postal code

5165687386

#### Approval date

2012-11-11, 1391/08/21

#### Ethics committee reference number

91130

## Health conditions studied

### 1

#### Description of health condition studied

post operative pain

#### ICD-10 code

Y83.9

#### ICD-10 code description

Surgical procedure, unspecified

## Primary outcomes

### 1

#### Description

Post operative pain

#### Timepoint

3 hours, 6 hours, 12 hours, 18 hours, 24 hours, 36 hours, 48 hours, 1 month, 2 months and 3 months after the surgery

#### Method of measurement

Visual analogue scale(VAS)

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: Laser irradiation will be done using a low level laser device mustang-026-Bio close to wound,10 minutes each time.

#### Category

Treatment - Other

### 2

#### Description

Control group: The analgesic treatment will be done using routine analgesic drugs

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Tabriz Imam Reza Hospital

##### Full name of responsible person

Dr.Mohammad Shimai

##### Street address

Imam Reza hospital, Golgasht street, Tabriz

##### City

Tabriz

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for reserach, Tabriz university of medical sciences

##### Full name of responsible person

Seyed Kazem Shakouri

##### Street address

Golgasht street, Daneshgah 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**  
Vice chancellor for reserach, 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 faculty of Medicine, Tabriz university of medical sciences

**Full name of responsible person**  
Dr. Mohammad Shimia

**Position**  
Neurosurgeon, Associate Proffessor

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

**Contact**

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**Position**

Anesthesiologist, Assistant Proffessor

**Other areas of specialty/work**

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## Person responsible for updating data

**Contact**

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Tabriz faculty of medicine

**Full name of responsible person**  
Dr. Aydin Kazemipoorazar

**Position**  
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**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*