

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Evaluation of Low Level Laser Therapy in reducing pain after varicocelelectomy

Protocol summary

Summary

In this study, we investigate the use of lowLevel laser in reducing orchialgia after varicocelelectomy. Inclusion criteria include having the consent to participate in the plan; patients aged 18 years and older; at least 12 weeks of their pain; pain before and after varicoscelectomy; ability to work with the treatment group; history of unsuccessful varicocelelectomy surgery; and exclusion criteria including patients with Dissatisfaction with participation in the plan; Patients with malignant disease; Epididymitis; Epididymal cysts; Flanker pain; Hydrocele; Neurological defects; Abnormal laboratory findings; Painful varicocele recurrence; Systemic or psychiatric illness; No response to traditional therapies. A randomized clinical trial in patients with orchialgia after varicocelelectomy in Shohadaye Tajrish hospitals . 60 patients were randomly divided into three groups with Random numbers (one control group and two intervention group) : 1) Low-Level laser group with a wavelength of 650 nm, 50 mw; 2) Infrared laser (IR) laser group with a wavelength of 820 nm, 100 mW, 3) Laser group off. Patients receive lasers and lasers three times a week for four weeks (12 sessions) each 15 minutes of laser sessions. It should be noted that treatment is done bilaterally. Patients and Doctor-therapist are unaware of laser therapy and silence. Treatment outcome is testicular pain and measured by the unpredictable physician at the end of the study six weeks after the treatment (after the last intervention) and 12 weeks after starting treatment (the last six weeks without intervention).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201709278146N23**

Registration date: **2017-10-15, 1396/07/23**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-10-15, 1396/07/23

Registrant information

Name

Mohammadreza Razaghi

Name of organization / entity

Laser application in medical sciences research center

Country

Iran (Islamic Republic of)

Phone

+98 21 2271 8021

Email address

laser.cntr@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2017-09-23, 1396/07/01

Expected recruitment end date

2018-03-20, 1396/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of Low Level Laser Therapy in reducing pain after varicocelelectomy

Public title

The effect of laser on pain reduction after varicocelelectomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Having consent to participate in the plan; Patients aged 18 years and older; At least 12 weeks have passed from their pain; Before and after varicosclectomy; Ability to co-operate with the treatment group; Failure to successfully complete varicosclectomy; Exclusion criteria: Patients with Dissatisfaction with participation in the plan; Patients with malignant disease; Epididymitis; Epididymal cysts; Flanker pain; Hydrocele; Neurological defects; Abnormal laboratory findings; Painful varicocele recurrence; Systemic or psychiatric illness; No response to traditional therapies;

Age

From **18 years** old

Gender

Male

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)

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

Next to Ayatollah Taleghani Hospital, Shahid Arabi ST. Yemen street, Shahid Chamran highway, Tehran

City

Tehran

Postal code

Approval date

2017-09-17, 1396/06/26

Ethics committee reference number

IR.SBMU.REC.1396.110

Health conditions studied

1

Description of health condition studied

orchialgia after varicocelectomy

ICD-10 code

N51.8

ICD-10 code description

Other disorders of male genital organs in diseases classified elsewhere

Primary outcomes

1

Description

The amount of testicular pain

Timepoint

Before treatment,6 week and 12 week after the end of treatment

Method of measurement

McGill questionnaire scoring system and VAS mark

Secondary outcomes

empty

Intervention groups

1

Description

The intervention group 1: Red light-duty laser group with a wavelength of 650 nm, and a power of 50 mW, received three times a week for four weeks (12 sessions) each session for a 15-minute laser.

Category

Treatment - Other

2

Description

Intervention group 2: infrared laser with a wavelength of 820 nm, 100 mW, three times a week for four weeks (12 sessions) each session receive 15 minutes of laser.

Category

Treatment - Other

3

Description

Control group: off laser group. They receive 15 minutes each session three times a week for four weeks (12 sessions).

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, Tajrish, Tehran

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

Next to Ayatollah Taleghani Hospital, Shahid Arabi ST. Yemen street, Shahid Chamran highway, Tehran

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

Other areas of specialty/work

Street address

Shohadaye Tajrish Hospital, Tajrish, Tehran

City

Tehran

Postal code

Phone

+98 21 2274 9221

Fax

Email

laser.cntr@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Laser Application Research Centre in Medical Sciences

Full name of responsible person

Dr.Sirus Momenzadeh

Position

Anesthesiologist

Other areas of specialty/work

Street address

Shohadaye Tajrish Hospital, Tajrish, Tehran

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Person responsible for updating data

Contact

Name of organization / entity

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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