

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Effect of Low-Level Laser Therapy on the post-surgical complications of third molar removal in referred patients to faculty of dentistry clinic

Protocol summary

Summary

This study has been used to evaluate the effects of Low-Level Laser Therapy (LLLT) on the post-surgical complications after third molar removal was done on 50 patients who candidate for surgical removal of impacted lower third molar in soft tissue. Patients randomly divided in two groups each with 25 patients. One group received the LLLT with an 810 nm wave length applied intra orally for 10 seconds after extraction procedure. Laser treatment was simulated in control group. Postoperative complications then were evaluated on 1, 3 and 7 days follow the after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014061818142N1**
Registration date: **2014-07-19, 1393/04/28**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-07-19, 1393/04/28

Registrant information

Name

Firouz Amani

Name of organization / entity

Ardabil Univesity of Medical Science

Country

Iran (Islamic Republic of)

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+98 45 1551 3777

Email address

f.amani@arums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ardabil Univesity of Medical Sciences

Expected recruitment start date

2012-08-21, 1391/05/31

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

Effect of Low-Level Laser Therapy on the post-surgical complications of third molar removal in referred patients to faculty of dentistry clinic

Public title

Effect of Low-Level Laser Therapy in the control of post-surgical complications

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients with impacted wisdom teeth in soft tissue Exclusion criteria: Systemic Disease such as diabetic, Heart failure and pulmonary, CVA, Immunological disorders; Current consumption of cigarettes; Patients who had a wisdom tooth infection around the resort and need for another therapies; Patients with eating disorders; patients who did not accept the Laser; peoples who did not comply the drug protocol after surgery.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

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

Ardabil University of Medical Science

Street address

Daneshghah st, Ardabil University of Medical Science,
Ardabil

City

Ardabil

Postal code

56197

Approval date

2013-09-15, 1392/06/24

Ethics committee reference number

Arums.REC.1392.17

Health conditions studied

1

Description of health condition studied

Wisdam impacted teeth

ICD-10 code

Embedded a

ICD-10 code description

Impacted teeth

Primary outcomes

1

Description

Recovery

Timepoint

Baseline, Third Day and The Seventh Day

Method of measurement

clinical

2

Description

Pain

Timepoint

Baseline, Third Day and The Seventh Day

Method of measurement

VAS

3

Description

Edema

Timepoint

Baseline, Third Day and The Seventh Day

Method of measurement

In Clinical

4

Description

Trismus

Timepoint

Baseline, Third Day and The Seventh Day

Method of measurement

The mouth opening

Secondary outcomes

empty

Intervention groups

1

Description

Laser with 810 mm wave lenght , 15 J energy and 0.5 W
power in laser group

Category

Treatment - Surgery

2

Description

Laser pretense in control group

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Dental Clinic of Ardabil University of Medical Science

Full name of responsible person

Abolfazl Bagheri

Street address

Daneshghah st, faculty of dentistry, Ardabil University
of Medical Science, Ardabil

City

Ardabil

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil Univesity of Medical Science

Full name of responsible person

Dr. Hadi Piri

Street address

Daneshghah st, Faculty of dentistry, Ardabil Univesity of Medical Science, Ardabil

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Ardabil

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ardabil Univesity of Medical Science

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

Faculty of Dentistry

Full name of responsible person

Dr.Abolfazl bagheri

Position

Assistant Prof

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