

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Effect of low power laser on reducing preorbital ecchymosis after rhinoplasty in patients admitted in facial plastic surgery clinic

Protocol summary

Study aim

The aim of this study is to evaluate the effect of low-power laser in reducing bruising around the eyes after rhinoplasty.

Design

patients are randomly assigned to two groups of control and intervention by using of block randomization

Settings and conduct

All patients referred to Facial Plastic Surgery Clinic was undergoing rhinoplasty

Participants/Inclusion and exclusion criteria

Patients undergoing rhinoplasty are included in study , excluded cases were who need to re operation, patients with systemic disease, or congenital malformation or skin disease that this situations known as contraindications for laser using.

Intervention groups

low power laser used for reducing of edema and bruising after rhinoplasty in intervention group and no intervention used rhinoplasty in control group

Main outcome variables

periorbital ecchymosis

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20080820001056N3**

Registration date: **2019-01-04, 1397/10/14**

Registration timing: **retrospective**

Last update: **2019-01-04, 1397/10/14**

Update count: **0**

Registration date

2019-01-04, 1397/10/14

Registrant information

Name

babak saedi

Name of organization / entity

tehran university of medical science

Country

Iran (Islamic Republic of)

Phone

+98 21 2270 0765

Email address

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Recruitment status

Recruitment complete

Funding source

Tehran university of medical science

Expected recruitment start date

2017-08-15, 1396/05/24

Expected recruitment end date

2018-08-20, 1397/05/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of low power laser on reducing preorbital ecchymosis after rhinoplasty in patients admitted in facial plastic surgery clinic

Public title

Effect of low power laser on reducing preorbital ecchymosis after rhinoplasty in patients admitted in facial plastic surgery clinic

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

Patients referred to Facial Plastic Surgery Clinic undergoing rhinoplasty

Exclusion criteria:

history of previous surgery systemic disease, congenital malformation skin disease, which contraindicates the use of laser radiation.

Age

No age limit

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

The method of randomization is 4block numbers

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**

Ethical committee of Tehran university of medical science

Street address

Tehran university of medical science, Qods st., Keshavarz blvd., Tehran

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1417653761

Approval date

2017-08-15, 1396/05/24

Ethics committee reference number

IR.TUMS.VCR.REC.1396.3211

Health conditions studied**1****Description of health condition studied**

periorbital ecchymosis

ICD-10 code

S00.1

ICD-10 code description

Contusion of eyelid and periocular area

Primary outcomes**1****Description**

rate of periorbital ecchymosis based on the doctor's evaluation

Timepoint

before intervention, one week after intervention

Method of measurement

based on the doctor's evaluation by grading system (0-4)

2**Description**

periorbital ecchymosis based on the patient's evaluation

Timepoint

before intervention, one week after intervention

Method of measurement

based on the patient's evaluation by VAS (1-10)

Secondary outcomes

empty

Intervention groups**1****Description**

intervention group: treatment with low power laser the day after surgery for 15 minutes over nose and face. was made by Meditex company, Canada

Category

Treatment - Other

2**Description**

Control group: no intervention

Category

Rehabilitation

Recruitment centers**1****Recruitment center****Name of recruitment center**

Imam Khomeini Hospital Complex

Full name of responsible person

Babak Saedi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Tehran university of medical science

Full name of responsible person

Somaye Karimi

Position

Doctor of Medicine (MD)

Latest degree

Medical doctor

Other areas of specialty/work

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Web page address**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

We will published it in article

When the data will become available and for how long

We will published it in article 2018

To whom data/document is available

nobody can have anything more than article

Under which criteria data/document could be used

We will published it in article, but nobody have access to other data

From where data/document is obtainable

We will published it in article

What processes are involved for a request to access data/document

contact with researchers

Comments