Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Efficacy of low level laser on reducing the post operative acute pain in patients who have been undergoing leg surgery

Protocol summary

Summary

The aim of this study is to investigate the effect of laser on acute post operative pain after leg surgery in patients undergoing spinal anesthesia. In this prospective double blind randomized study 54 patients were divided in intervention and control group. Inclusion criteria : ASA class I & II ; 18-50 years old . Exclusion criteria:pregnancy,malignancy,benign tumors with probability of being malignant,hyperensitivity to light like lupus and contraindications of spinal anesthesia(patient refusal,infection at the site of planned needle puncture,elevated intracranial pressure and bleeding diathesis). Spinal anesthesia with 12.5 mg Marcaine will done in both groups equally. in intervention group 27 patients received red and infra red laser radiation at the end of surgery. and in control group 27patients received off laser after surgery. Postoperative pain and needs for analgesics will measured at 2 , 4 , 8 , 12 and 24 hours after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012121410509N4**
Registration date: **2013-03-09, 1391/12/19**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-03-09, 1391/12/19

Registrant information

Name

Sholeh Nesioonpour

Name of organization / entity

Ahvaz Jundishapur Medical University

Country

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Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Science

Expected recruitment start date

2012-12-21, 1391/10/01

Expected recruitment end date

2013-06-22, 1392/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of low level laser on reducing the post operative acute pain in patients who have been undergoing leg surgery

Public title

The effect of low level laser on pain after leg surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : ASA class I & II ; 18-50 years old . Exclusion criteria : pregnancy ; malignancy ; benign tumors with probability of being malignant ; hyperensitivity to light like lupus ; contraindications of spinal anesthesia(patient refusal ; infection at the site of planned needle puncture ; elevated intracranial pressure and bleeding diathesis)

Age

From **18 years** old to **50 years** old

Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **54**
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
Ahvaz Jundishapur University of Medical Science
Street address
Golestan
City
Ahvaz
Postal code
Approval date
2012-12-19, 1391/09/29
Ethics committee reference number
ETH-654

Health conditions studied

1

Description of health condition studied
Pain
ICD-10 code
R52.0
ICD-10 code description
acute pain

Primary outcomes

1

Description
Pain
Timepoint
2,4,8,12,24 hour after surgery
Method of measurement
Visual Analogue Scale

Secondary outcomes

1

Description
Opioid Consumption
Timepoint
24 hours after surgery
Method of measurement
milligram

Intervention groups

1

Description
In intervention group patients received infrared and red laser radiation after the end of surgery
Category
Prevention

2

Description
In control group patients received off laser after the end of surgery
Category
Prevention

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Khomeini Hospital
Full name of responsible person
Dr Salman Vojdani
Street address
Azadegan Avenue
City
Ahvaz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ahvaz Jundishapur University of Medical Science
Full name of responsible person
Dr Mostafa Feghhi
Street address
Golestan
City
Ahvaz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor

organization/entity?
Yes
Title of funding source
Ahvaz Jundishapur University 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

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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