Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison the Effects of Lidocaine Versus Ketamine Wound Infiltration on Postoperative Pain in Inguinal Herniorrhaphy

Protocol summary

Summary

Objective: The goal of this study was to compare the analgesic effects of lidocaine versus ketamine wound infiltration on postoperative pain in inguinal herniorrhaphy. Patients and Methods: A total of 69 American Society of Anesthesiologist (ASA) class I-II patients, aged between 20 and 60 years old, scheduled for elective unilateral inguinal herniorrhaphy were enrolled in this double-blinded, clinical trial study. They were randomly divided into 3 equal groups (by using the colored cards). Patients in the three groups was operated under general anesthesia. Drugs were used for premedication, induction and maintenance of anesthesia were the same in the three groups. In the first group lidocaine1% (1mg/kg) and in the second group ketamine (0.5mg/kg) was infiltrated at the incisional site. Patients in the third group (control) did not receive any drug for wound infiltration. For comparison of postoperative pain, Visual Analogue Scale (VAS) was evaluated after the first hour of recovery period when the patients were alert and cooperative .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204087695N2**
Registration date: **2012-04-18, 1391/01/30**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-04-18, 1391/01/30

Registrant information

Name

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Name of organization / entity

Qazvin University Of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for research, Qazvin University of Medical Sciences

Expected recruitment start date

2010-07-11, 1389/04/20

Expected recruitment end date

2010-12-30, 1389/10/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the Effects of Lidocaine Versus Ketamine Wound Infiltration on Postoperative Pain in Inguinal Herniorrhaphy

Public title

Comparison the Effects of Lidocaine Versus Ketamine Wound Infiltration on Postoperative Pain in Inguinal Herniorrhaphy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age between 20 and 60 years old; ASA I,II and unilateral inguinal herniorrhaphy. Exclusion criteria: positive history of anti-convulsive, opioids, analgesic, sedative, corticosteroid and non steroidal anti-

inflammatory drugs consumptions; patients with elevated intracranial pressure; positive history of coronary artery disease, psychiatric disorder, convulsion and positive history of allergic reaction to lidocaine.

Age
From **20 years** old to **60 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **69**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double 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 Qazvin university of medical sciences

Street address
Shahid Bahonar Street ,Qazvin university of medical sciences

City
Qazvin

Postal code

Approval date
2010-07-06, 1389/04/15

Ethics committee reference number
4402/20/د

Health conditions studied

1

Description of health condition studied
Diseases of the digestive system

ICD-10 code
K40.3

ICD-10 code description
Unilateral or unspecified inguinal hernia, with obstruction, without gangrene

Primary outcomes

1

Description
Pain

Timepoint
One hour after arriving the patients to recovery room

Method of measurement
Visual Analogue Scale

Secondary outcomes

1

Description
Systolic and diastolic blood pressure and heart rate

Timepoint
Each 5 minutes during the first one hour of recovery period

Method of measurement
By monitoring of vital sign

Intervention groups

1

Description
In the first group lidocaine1% (1mg/kg) was infiltrated at the incisional site.

Category
Treatment - Drugs

2

Description
In the second group ketamine (0.5mg/kg) was infiltrated at the incisional site.

Category
Treatment - Drugs

3

Description
Patients in the third group (control) did not receive any drug for wound infiltration.

Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
Shaheed Rajaee Hospital

Full name of responsible person
Seyedeh masoumeh Hosseini Valami

Street address
Shaheed Rajaee Hospital, Padegan street

City
Qazvin

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
vice-chancellor for research ,Qazvin university of medical sciences
Full name of responsible person
Dr Saeid Asefzadeh
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Shahid Bahonar street ,Qazvin university of medical sciences
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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
vice-chancellor for research ,Qazvin 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

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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