

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 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

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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

4402/20/3

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

Street address

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

Contact

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Seyedeh Masoumeh hosseini Valami

Position

Anesthesiologist, Assistant Professor

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