Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of preventive lidocaine treatment on postoperative pain control

Protocol summary

Summary

Nowadays, gynecologic surgeries are one of the most common procedures in the outpatient settings and are performed progressively with laparoscopy. However, acute pain is a most important postoperative complication and not only, can lead to patient discomfort and unsatisfying, but also result to delayed discharge, hospital admission and increased costs. Severity of post laparoscopic pain is moderate to severe and about 35% to 65% of patients experienced it as abdominal or shoulder tip pain and up to 80% of patients required analgesia. Lidocaine has antihyperalgic and anti inflammatory effects and use of this drug in the perioperative period can be a useful approach for post laparoscopic pain control. After given informed consent, all patient's will randomly allocate in one of the lidocaine or placebo groups. With induction of anesthesia, lidocaine group will receive lidocaine infusion in the rate of 2mg/kg/h and placebo group will only receive normal saline in the same infusion rate. After completion of surgery and extubation, pain severity will be evaluate with visual analogue scale (VAS) scoring system in recovery and 2.4,6,12 and 24 hours postoperatively. Postoperative pain with VAS≥4 will be controlled with 0.5/kg intravenous Meperidine. Pain severity, time to first analgesic request, total analgesic consumption doses and any probable postoperative complications will be recorded and statistically analyzed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014040511700N5**
Registration date: **2014-08-20, 1393/05/29**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-08-20, 1393/05/29

Registrant information

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Farnaz Moslemi Tabrizi
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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Tabriz university of Medical Sciences

Expected recruitment start date

2014-04-05, 1393/01/16

Expected recruitment end date

2015-04-05, 1394/01/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of preventive lidocaine treatment on postoperative pain control

Public title

Evaluation of the effect of perioperative intravenous infusion of lidocaine in postoperative pain management in women under gynecologic laparoscopy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:Women candidate for Gynecologic Laparoscopic surgery; patients with ASA physical status I and II Exclusion criteria: Patient's with ASA class III or above; women with cardiovascular; respiratory diseases; hepatic or renal dysfunction; endocrine disorders; hypertension; psychologic disorder; convulsion; algeria to lidocaine; patients who received opioid or non opioid analgesic preoperatively

Age

From **18 years** old to **60 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

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

Ethics Committee of Vice chancellor for research, Tabriz University of Medical Sciences

Street address

Tabriz university of Medical Sciences, Golgasht Ave, Tabriz

City

Tabriz

Postal code

Approval date

2014-02-12, 1392/11/23

Ethics committee reference number

92192

Health conditions studied

1

Description of health condition studied

Postoperative pain after laparoscpy

ICD-10 code

R50,R51,R5

ICD-10 code description

Acute pain

Primary outcomes

1

Description

Pain

Timepoint

2, 4, 6, 12, 24 hours postoperative

Method of measurement

Visual Analog Scale (VAS)

Secondary outcomes

1

Description

Rescue analgesic consumption after surgery

Timepoint

24 hours postoperative

Method of measurement

Total dose mg

2

Description

The first analgesia administration

Timepoint

The time to the first analgesia administration

Method of measurement

Hours

Intervention groups

1

Description

With induction of anesthesia, lidocaine group will receive lidocaine infusion in the rate of 2mg/kg/h

Category

Prevention

2

Description

Control group will only receive normal saline in the same volume and infusion rate.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person
Dr. Farnaz Moslemi
Street address
Alzahra Hospital, South Artesh Ave, Tabriz
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for research of Tabriz university of Medical Sciences
Full name of responsible person
dr.Hassan Solaimanpour
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Tabriz University of Medical Sciences, Golgasht Ave, Tabriz
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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 of Tabriz 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