

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Clinical Trial Comparison Between Lidocaine And Magnesium sulfate On Pain Of Interavenous Etomidate In Patients Undergoing Any Type Of Surgery With General Anesthesia Except Cesarean Section

Protocol summary

Summary

This study is a randomized double-blind clinical trial. The aim of this study is comparison between lidocaine and magnesium sulfate on pain of interavenous etomidate in 99 patients 18-60 years old undergoing any type of surgery except cesarean section. Patients with Neuromuscular disease, Heart disease, epilepsy, pregnancy, receiving pain medications in twenty-four hours before surgery and thrombophlebitis will be excluded. Patients are randomly divided into three groups. The patients are not aware of the type of drug which received and evaluation of patients is performed by anesthesiologist who does not know about the protocol of the study. Anesthesia induction in three groups is identical and with 0.3 mg/Kg of etomidate. First group before injection of etomidate receives 2.48 mmol (60 mg) intravenous magnesium sulfate diluted in 2 mL of saline. Second group before injection of etomidate receives 30 mg of lidocaine 1% diluted in 2 ml of saline. Third group before injection of etomidate receives 5 ml of saline. After injection of etomidate injection site pain in patients will be assessed with 4 point ambesh scal.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014121420304N1**
Registration date: **2015-01-13, 1393/10/23**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-01-13, 1393/10/23

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 Of Ahvaz Jondishapour University of Medical Sciences

Expected recruitment start date

2014-06-14, 1393/03/24

Expected recruitment end date

2015-03-15, 1393/12/24

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Trial Comparison Between Lidocaine And Magnesium sulfate On Pain Of Interavenous Etomidate In Patients Undergoing Any Type Of Surgery With General Anesthesia Except Cesarean Section

Public title

The Effect Of Lidocaine And Magnesium Sulfate On Pain Of Interavenous Etomidate

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Age range 18-60; Patients undergoing surgery with The anesthetic etomidate except for cesarean section. Exclusion criteria: Neuromuscular diseases; Heart disease; Epilepsy; pregnancy; Receiving pain medications in twenty-four hours before surgery; Thrombophlebitis; Neurological and psychiatric disorders.

Age

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

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **99**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

The table of random numbers used for randomization.

Each patient is assigned a code by who does not know about the protocol of the study.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Ahvaz Jondishapour University Of Medical Sciences

Street address

Ground Floor, Central Library, Ahvaz Jondishapour University of Medical Sciences, Golestan BLvd., Ahvaz

City

Ahvaz

Postal code

Approval date

2014-05-17, 1393/02/27

Ethics committee reference number

Ajums.REC.1393.53

Health conditions studied

1

Description of health condition studied

pain

ICD-10 code

Y45.9

ICD-10 code description

Analgesic, antipyretic and anti-inflammatory drug, unspecified

Primary outcomes

1

Description

Pain

Timepoint

After injection of etomidate and during twenty-four hours after surgery

Method of measurement

4 point Ambesh scal

Secondary outcomes

empty

Intervention groups

1

Description

Group1: injection of 2.48 mmol (60 mg) intravenous magnesium sulfate diluted in 2 mL of saline before injection of etomidate

Category

Prevention

2

Description

Group2: injection of 30 mg of lidocaine 1% diluted in 2 ml of saline before injection of etomidate .

Category

Prevention

3

Description

Group3: injection of 5 ml of saline before injection of etomidate.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Mansoor Soltanzadeh

Street address

Imam Khomeini Hospital, Shahid Ahvazian St., Ahvaz

City

Ahvaz

2

Recruitment center

Name of recruitment center

Golestan Hospital

Full name of responsible person

Farhad Soltani

Street address

Golestan Hospital, Farvardin st., Golestan, Ahvaz

City

Ahvaz

3

Recruitment center

Name of recruitment center

Razi Hospital

Full name of responsible person

Reza Akhondzadeh

Street address

Razi Hospital, Felestin St., Amanieh, Ahvaz

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor For Research Of Ahvaz Jondishapour
University of Medical Sciences

Full name of responsible person

Nader Saki

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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 Ahvaz Jondishapour
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

Ahvaz Jondishapour University of Medical Sciences

Full name of responsible person

Jamileh Leilaten

Position

Resident Of Anesthesiology

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Full name of responsible person

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Web page address**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