

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 May 2026

Comparing the efficacy of Granisetron and Lidocaine on reducing the pain on injection of Etomidate: a double blind clinical trial.

Protocol summary

Summary

Etomidate is one of the intravenous anesthetic agents that causes pain on injection site. In this study the effect of Granisetron and Lidocaine on reducing the pain on injection of Etomidate was compared. 30 patients of both sexes, aged between 25-60 years, who were candidate for elective laparoscopic cholecystectomy, and requiring more than one intravenous access lines were enrolled in this study. On arrival to the operating room, two 20 gauge cannulas were inserted into the veins on the dorsum of both hands of all patients, using an elastic band as a tourniquet, venous drainage of both hands was occluded. 2 ml Lidocaine was administered into one hand and 2 ml Granisetron at the same time into the other hand. One minute later the elastic band was opened and 2mg (1 ml) Etomidate at the same rate administered to each hand. The patients were asked to give a score from 0 to 10 to each hand. (0= no pain, 10= severe pain)

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201411025175N19**

Registration date: **2014-12-07, 1393/09/16**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-12-07, 1393/09/16

Registrant information

Name

Ali Movafegh

Name of organization / entity

Dr. Shariati Hospital

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2014-11-09, 1393/08/18

Expected recruitment end date

2014-11-21, 1393/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the efficacy of Granisetron and Lidocaine on reducing the pain on injection of Etomidate: a double blind clinical trial.

Public title

Reducig pain on Injection of IV drug

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria: American Society of Anesthesiologists (ASA) physical status class I or II; age between 25-60, patients who were candidated for elective laparoscopic cholecystectomy; consent of patients and filling an informed written consent; patients without a history of thrombophlebitis or vascular disease, chronic pain; diabetes mellitus; not to be addicted. Exclusion criteria: If patient can not corporate because excess level of sedation; unsuccessful intravenous catheterization, dispensing with participation in study; any drugs taken

other than what prescribed in protocol.

Age

From **25 years** old to **60 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

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

Ethic committee, Faculty of Medicine of Tehran
,University of Medical Sciences

Street address

Second floor, Faculty of Medicine, Tehran University
of Medical Sciences and Health Services, Poorsina St,
Ghods Ave, Keshavarz Blvd, Tehran, Iran.

City

Tehran

Postal code

Approval date

2014-02-20, 1392/12/01

Ethics committee reference number

4531/250

Health conditions studied

1

Description of health condition studied

The effect of Granisetron and Lidocaine on reducing the pain on injection of Etomidate in patients under elective laparoscopic cholecystectomy.

ICD-10 code

T80.9

ICD-10 code description

Unspecified complication following infusion, transfusion and therapeutic injection

Primary outcomes

1

Description

Pain

Timepoint

2 minutes after injection

Method of measurement

Numeric Rating Scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention 1: 2 mL of Lidocaine was administered to a vein on dorsum of one hand and one minute later the elastic band was opened and 2mg (1 ml) Etomidate at the same rate was administered.

Category

Prevention

2

Description

Intervention 2: 2ml of Granisetron was administered to a vein on dorsum of the other hand at the same time and one minute later the elastic band was opened and 2mg (1 ml) Etomidate at the same rate was administered.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Dr. Shariati Hospital

Full name of responsible person

Street address

Dr. Shariati Hospital, North Karegar Ave, Jalale Ale
Ahmad Hwy, Tehran, Iran.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Shahin Akhondzadeh

Street address

Vice Chancellor for research , Tehran University of

Medical Sciences

City

Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Tehran University of Medical Sciences

Proportion provided by this source

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

2

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Shahin Akhondzadeh

Street address

Vice Chancellor for research , Tehran University of Medical Sciences

City

Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Tehran University of Medical Sciences

Proportion provided by this source

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

Dr. Shariati Hospital

Full name of responsible person

Dr. Ali Movafegh

Position

Professor of Anesthesiology

Other areas of specialty/work

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Person responsible for scientific inquiries

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Dr. Shariati Hospital

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General Physician

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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