

# 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)

###### Phone

+98 21 8490 2373

###### Email address

movafegh@sina.tums.ac.ir

###### 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**

**Street address**

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Dr. Shariati Hospital

**Full name of responsible person**

Maryam Abdolahpour

**Position**

General Physician

**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*