

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

07 Jun 2026

### Comparison of the effect of Etomidate with Sodium Thiopental on sore throat and muscular pain following surgery under general anesthesia.

#### Protocol summary

##### Study aim

Comparison of the effect of Etomidate with Sodium Thiopental on sore throat and muscular pain following surgery under general anesthesia

##### Design

This study is a clinical trial study. Samples of this study were 112 patients of Imam Hossein Hospital operating room, which have been prepared for open surgery under general anesthesia with endotracheal intubation. After justification and informed consent, the patients are prepared according to a simple random pattern and will be placed in one of the Etomidate groups (group A or intervention) or thiopental (group B or control)

##### Settings and conduct

This research was conducted on comparison of the effect of Etomidate with Sodium Thiopental on sore throat and muscular pain following surgery under general anesthesia. The place of research is in the operating room of Imam Hossein Hospital. After justification and informed consent, the patients will be placed in one of the Etomidate (group A or intervention) or Thiopental (group B or control), based on the simple randomized pattern prepared beforehand. The study is a double-blind, and the participants, the main researcher, the Study not blinded.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: A woman or man aged 18 to 50 years, The risk of anesthesia is one and two exclusion criteria: History of drug abuse, They need to inject a succinylcholine drug, Any complications of anesthesia or surgery that occur during the procedure

##### Intervention groups

Intervention group: The onset of anesthesia with an Etomidate (0.3 mg / kg) and muscle relaxant in the the intervention group, Atracurium (0.4 mg / kg) will be performed by the skilled person. Control group: The onset of anesthesia with Thiopental (5 mg / kg) and muscle relaxant in the control group, Atracurium (0.4 mg / kg) will be performed by the skilled person.

#### Main outcome variables

Sore throat and muscle aches

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20160217026614N2**

Registration date: **2018-02-20, 1396/12/01**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-02-20, 1396/12/01**

Update count: **0**

##### Registration date

2018-02-20, 1396/12/01

##### Registrant information

##### Name

ehsan zeinali

##### Name of organization / entity

medical university of shahrud

##### Country

Iran (Islamic Republic of)

##### Phone

+98 23 3236 9764

##### Email address

zeinali\_ehsan@yahoo.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2017-03-19, 1395/12/29

##### Expected recruitment end date

2018-03-21, 1397/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**  
empty

**Scientific title**  
Comparison of the effect of Etomidate with Sodium Thiopental on sore throat and muscular pain following surgery under general anesthesia.

**Public title**  
Comparison of the effect of Etomidate with Sodium Thiopental on sore throat and muscular pain following surgery under general anesthesia.

**Purpose**  
Supportive

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
A woman or man aged 18 to 50 years The risk of anesthesia is one and two  
**Exclusion criteria:**  
History of drug abuse They need to inject a succinylcholine drug Any complications of anesthesia or surgery that occur during the procedure

**Age**  
From **18 years** old to **50 years** old

**Gender**  
Both

**Phase**  
3

**Groups that have been masked**  
*No information*

**Sample size**  
Target sample size: **112**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Randomization based on simple random pattern that is performed using a random number table.

**Blinding (investigator's opinion)**  
Not 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 of Shahrud medical science

##### Street address

Shahrud University of Medical Sciences and Health Services, Hafte-Tir Square, Shahrud

##### City

shahrud  
**Province**  
Semnan  
**Postal code**  
۳۶۱۴۷۷۳۹۴۷

#### Approval date

2016-01-12, 1394/10/22

#### Ethics committee reference number

IR.SHmu.REC.1394.168

## Health conditions studied

### 1

#### Description of health condition studied

Complications of anesthesia

#### ICD-10 code

T88.59XD

#### ICD-10 code description

Other complications of anesthesia, subsequent encounter

## Primary outcomes

### 1

#### Description

Sore throat

#### Timepoint

The first day after the intervention

#### Method of measurement

NPRS benchmark

### 2

#### Description

muscle aches

#### Timepoint

The first day after the intervention

#### Method of measurement

NPRS benchmark

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: The onset of anesthesia with an Etomidate (0.3 mg / kg) and muscle relaxant in the the intervention group, Atracurium (0.4 mg / kg) will be performed by the skilled person.

#### Category

Treatment - Surgery

### 2

#### Description

Control group: The onset of anesthesia with Thiopental (5

mg / kg) and muscle relaxant in the control group, Atracurium (0.4 mg / kg) will be performed by the skilled person.

**Category**

Treatment - Surgery

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Imam Hossein Shahroud Hospital

**Full name of responsible person**

Ehsan Zainali

**Street address**

Lane 28-meter Ayatollah Tohidi ,Imam Street.  
Shahroud City

**City**

Shahroud

**Province**

Semnan

**Postal code**

3615687183

**Phone**

+98 23 3234 2000

**Email**

zeinali\_ehsan@yahoo.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Shahroud University of Medical Sciences

**Full name of responsible person**

Mohammad Hassan Emamian

**Street address**

Health Services,Hafte-Tir Square,Shahroud

**City**

Shahroud

**Province**

Semnan

**Postal code**

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**Phone**

+98 23 3234 2000

**Email**

emamian@shmu.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Shahroud University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

empty

**Country of origin****Type of organization providing the funding**

Academic

**Person responsible for general inquiries****Contact****Name of organization / entity**

Shahroud University of Medical Sciences

**Full name of responsible person**

Ehsan Zainali

**Position**

Student of Medicine

**Latest degree**

Medical doctor

**Other areas of specialty/work**

General Practitioner

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Health Services,Hafte-Tir Square,Shahroud

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## Person responsible for updating data

### Contact

**Name of organization / entity**

Shahroud University of Medical Sciences

**Full name of responsible person**

Ehsan Zainali

**Position**

Student of Medicine

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Anesthesiology

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available