

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 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

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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.
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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

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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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Person responsible for scientific inquiries

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Full name of responsible person

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Position

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Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

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Position

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Latest degree

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Other areas of specialty/work

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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