

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Comparisons between effect of intra venous Ibuprofen with Tramadol for prevention of postoperative shivering with general anesthesia

Protocol summary

Study aim

Comparative study of intravenous ibuprofen and tramadol in preventing shivering after abdominal surgery with general anesthesia

Design

Controlled clinical trial, community-based, parallel group, triple blind, randomized.

Settings and conduct

The present study was carried out with controlled clinical trials; triple blind on patients undergoing abdominal surgery (cholecystectomy and laparotomy) and under general anesthesia referring to Fatemi Hospital in the age range of 20 to 70 years old and on both males and females.

Participants/Inclusion and exclusion criteria

Inclusion criteria, eligible patients will be ASA1,2 physical. Severe cardiovascular disease, liver and kidney disorders, peptic ulcer, muscle disease, blood transfusions or blood products during surgery, or history of seizure, as well as surgeries with a duration of more than 2 hours as exclusion criteria.

Intervention groups

Tramadol 1 mg / kg and intravenous ibuprofen (800 mg ampoules) given in the same volume 30 minutes before surgery (injected over 10 minutes).

Main outcome variables

check in scale of shivering

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180615040104N1**

Registration date: **2018-10-01, 1397/07/09**

Registration timing: **retrospective**

Last update: **2018-10-01, 1397/07/09**

Update count: **0**

Registration date

2018-10-01, 1397/07/09

Registrant information

Name

Maryam Mehrban

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-13, 1396/11/24

Expected recruitment end date

2018-08-21, 1397/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparisons between effect of intra venous Ibuprofen with Tramadol for prevention of postoperative shivering with general anesthesia

Public title

The effect of intravenous ibuprofen and tramadol on shivering after abdominal surgery with general anesthesia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Patients undergoing cholecystectomy (surgical) Male patients referred to Ardabil Fatemi Hospital in the range of 20 to 70 year. Female patients referred to Ardabil Fatemi Hospital in the range of 20 to 70 year.

Exclusion criteria:

Severe cardiovascular disease Liver and kidney disorders Peptic ulcer disease Muscular disease Patients with history of the blood transfusions or blood products during surgery Patients with history of seizure Surgeries with a duration of more than 2 hours

Age

From **20 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Care provider

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly divided into three groups. Initially, 120 envelopes will be prepared that 40 with letters (A) and 40 with letters (B) and 40 envelopes with letters (E) written. The drugs will be encoding, so that the injector And the checklist registrar is not aware of the quiddity of the codes. The drugs are drawn in two Session (in volume of 2 cc) and in the same color of the syringes and the code is recorded on them. The technician outside of the research group prepares drugs and the researcher does not know the quiddity of the codes, type of injectable drugs and drugs are injected according to the selected code. Then an envelope is randomly selected and the drug that containing the code in the envelope is injected to the patient and the results are recorded in the checklist.

Blinding (investigator's opinion)

Triple blinded

Blinding description

At first three boxes with codes A, B and C were prepared. Then the medications were given to an anesthetic technician. He was asked to place the vials of each drug in one of the boxes. Vials should be similar and without names. The packets are packed in each group and then the researcher randomly selects one of the envelopes and injects and records the results in checklists.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Medical University of Ardebil

Street address

No. 90, Mlek Ashtar Alley, Otobosrani St., Ardebil City

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Province

Ardabil

Postal code

5619866111

Approval date

2018-02-17, 1396/11/28

Ethics committee reference number

IR. ARUMS. REC. 1396. 228

Health conditions studied**1****Description of health condition studied**

Cholelithiasis, cholecystitis and other diseases associated with gallbladder

ICD-10 code

k808,182

ICD-10 code description

Calculus of gallbladder with acute cholecystitis, Calculus of gallbladder with other cholecystitis, Calculus of gallbladder without cholecystitis

Primary outcomes**1****Description**

check in scale of shivering

Timepoint

check in scale of post operative shivering based on observation muscle movement in recovery and scored

Method of measurement

score

Secondary outcomes**1****Description**

check in scale of post operative nausea and vomiting and sedation and pain.

Timepoint

check in scale of post operative indication of nausea and vomiting and sedation and pain based on APFEL & RAMSAY score and VAS

Method of measurement

score

Intervention groups

1

Description

Interventions group1: Tramadol ampoule 1 mg / kg

Category

Prevention

2

Description

Interventions group2: intravenous ibuprofen ampoule 800 mg

Category

Prevention

3

Description

Control group: Placebo (normal saline with the same volume and shape with the intervention groups)

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Ardebil Fatemi Hospital

Full name of responsible person

Ghodrat Akhavan Akbari

Street address

University Ave.

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53141-56198

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

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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

Ardabil 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

Ardabil University of Medical Sciences

Full name of responsible person

Ghodrat Akhavan Akbari

Position

Pain Fellowship anesthesiologist.

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

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Name of organization / entity

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Position

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Person responsible for updating data

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Full name of responsible person

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Position

Medical Student

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