Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparing the analgesic effects of intravenous acetaminophen with intravenous meperidine after outpatient urologic procedures

Protocol summary

Summary

(1) Objectives: The aim of this study is to compare the analgesic effects of intravenous acetaminophen with intravenous meperidine after outpatient urologic procedures. (2) Design: Interventional, randomized, double blind, without placebo, uni central (3) Setting and conduct: 100 patients 18-69 years old (50 in the meperidine group and 50 in the acetaminophen group) who were candidate for urology outpatient surgery were enrolled in a randomized double blind prospective study. (4) Participants: Inclusion criteria were patients with physical status ASA I or II; undergoing outpatient urologic procedures (hydrocele, hernia, varicocele); by general anesthesia. The exclusion criteria were patients with history of digestive disorders (nausea, vomiting, gastric ulcer); dizziness; liver disorders. (5) Intervention: In Group I, before the reverse of general anesthesia, intravenous acetaminophen 1 g was infused within 15 minutes and in Group II, meperidine 0.5 mg per kg was injected bolus intravenously. (6) Main outcome measures: Post operation pain were evaluated using the visual analog scale (VAS) up to 6 hours after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201206094005N5**
Registration date: **2013-06-08, 1392/03/18**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-06-08, 1392/03/18

Registrant information

Name

Khosro Kolahdouzan

Name of organization / entity

Faculty of Paramedical Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2012-11-21, 1391/09/01

Expected recruitment end date

2013-11-21, 1392/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the analgesic effects of intravenous acetaminophen with intravenous meperidine after outpatient urologic procedures

Public title

Comparing the analgesic effects of intravenous acetaminophen with intravenous meperidine after outpatient urologic procedures

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients with physical status ASA I or II; undergoing outpatient urologic procedures (hydrocele,

hernia, varicocele); by general anesthesia Exclusion criteria: patients with history of digestive disorders (nausea, vomiting, gastric ulcer); dizziness; liver disorders

Age
From **18 years** old to **69 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **100**

Randomization (investigator's opinion)
Randomized

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
Ethics committee of Tabriz University of Medical Sciences

Street address
Tabriz University of Medical Sciences, Golgasht street, Azadi avenue

City
Tabriz

Postal code

Approval date
2013-05-04, 1392/02/14

Ethics committee reference number
9211

Health conditions studied

1

Description of health condition studied
Postoperative pain

ICD-10 code
T88.8

ICD-10 code description
Other specified complications of surgical and medical care, not elsewhere classified

Primary outcomes

1

Description
pain

Timepoint
every hour for 6 hours after operation

Method of measurement
visual analog scale

Secondary outcomes

empty

Intervention groups

1

Description
At the end of operation, infusion of 1 gr intravenous acetaminophen within 15 minutes

Category
Treatment - Drugs

2

Description
At the end of operation,intravenous bolus injection of meperidine 0.5 mg/kg

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Tabriz Emam Reza Hospital

Full name of responsible person
Dr. Mahmoud Eidi

Street address
Tabriz Emam Reza hospital, Golgasht street, Azadi avenue

City
Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person
Dr. Seyyed Kazem Shakouri

Street address
Tabriz University of Medical Sciences, Golgasht street, Azadi avenue

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Proportion provided by this source

100

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

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mahmoud Eidi

Position

Associate Professor of Anesthesiology

Other areas of specialty/work

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Person responsible for updating data

Contact

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