Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison intravenous anesthesia with Propofol and inhalation anesthesia with Isoflurane for pain measurement in post operative patients after inguinal herniorrhaphy

Protocol summary

Summary

The aim of this study is comparison intravenous anesthesia with Propofol and inhalation anesthesia with Isoflurane for pain measurement in post operative patients after inguinal herniorrhaphy. This study have a clinical trial design. Researcher chosen 100 patients in elective surgery of inguinal hernia. Vital sign such as heart rate, systolic and diastolic blood pressure and oxygen saturation measured before intubation of anesthesia. Researcher used 0/5 mg / kg Midazolam and 1 µg / kg Fentanyl for all patients. Researcher injected 2 mg / kg Propofol and 0/5 kg intravenous Atracurium in both groups. Patients randomly were divided in to two groups. The first group injected 100 mg /kg/minute Propofol for the maintenance of anesthesia and second group injected 1 mg/kg/minute Isoflurane for the maintenance of anesthesia. Intubation time and recovery time is recorded. Pain was measured in the recovery room (zero time) and after 6 hours (every 2 hours) based on the VAS scale. Patient’s vital signs measured at zero time. Nausea and vomiting and shivering of patients were recorded during this period. 75 mg Diclofenac was injected for patient in the postoperative room if VAS scale was more than 3 during 6 hours after surgery .Dose of Diclofenac was recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015112925277N1**
Registration date: **2015-12-24, 1394/10/03**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-12-24, 1394/10/03

Registrant information

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Sciences and Health Services

Expected recruitment start date

2015-11-30, 1394/09/09

Expected recruitment end date

2017-02-27, 1395/12/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison intravenous anesthesia with Propofol and inhalation anesthesia with Isoflurane for pain measurement in post operative patients after inguinal herniorrhaphy

Public title

Comparison intravenous anesthesia with Propofol and inhalation anesthesia with Isoflurane for pain

measurement in post operative patients after inguinal herniorrhaphy

Purpose
Treatment

Inclusion/Exclusion criteria
Exclusion criteria: history of allergic reaction to the drug used in this study, pregnancy, drug addiction, and pain relief medications 24 hours before surgery, persistent hypertension, cardiovascular disease, renal failure

Age
No age limit

Gender
Both

Phase
N/A

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 Arak University of Medical Sciences and Health Services

Street address
Research Center, Educational complex Payambar Azam, Basij square, Sardasht

City
Arak

Postal code
38481-7-6941

Approval date
2015-07-27, 1394/05/05

Ethics committee reference number
IR.ARAKMU.REC.1394.110

Health conditions studied

1

Description of health condition studied
Inguinal herniorrhaphy

ICD-10 code
K40.3

ICD-10 code description
Unilateral or unspecified inguinal hernia, with obstruction, without gangrene

Primary outcomes

1

Description
Pain

Timepoint
recovery room (zero time) and after 6 hours (every 2 hours)

Method of measurement
Visual Analog Scale

2

Description
Temprature

Timepoint
Before and after surgery

Method of measurement
Thermometer

3

Description
Blood pressure

Timepoint
Before and after surgery

Method of measurement
Barometer

4

Description
Heart rate

Timepoint
Before and after surgery

Method of measurement
Rate in minute

5

Description
Respiratory

Timepoint
Before and after surgery

Method of measurement
Rate in minute

6

Description
Intubation time

Timepoint
After surgery

Method of measurement
Minute

7

Description
Recovery time
Timepoint
After surgery
Method of measurement
Minute

Secondary outcomes

1

Description
Diclofenac
Timepoint
After surgery
Method of measurement
Drug dose

Intervention groups

1

Description
first group injected 100 mg /kg/minute propofol for the maintenance of anesthesia
Category
Treatment - Drugs

2

Description
second group injected 1 mg/kg/minute isoflurane for the maintenance of anesthesia
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Valiasr Hospital
Full name of responsible person
Tahereh Mohaqeq
Street address
Valiasr Hospital ,Arak
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor of Arak University of Medical Sciences and Health Services
Full name of responsible person
Dr Bijan Yazdi
Street address
Research Center, Educational complex Payambar Azam, Basij square, Sardasht
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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
Vice Chancellor of Arak University of Medical Sciences and Health Services
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
Arak University of Medical Sciences and Health Services
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Person responsible for updating data

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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