

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison the effect of general anesthesia with Sevofluran, Isoflorane and Propofol in decreasing nausea and vomiting after surgery

Protocol summary

Summary

The aim of this study is to compare the effects of general anesthesia with ,Sevoflurane , Isoflurane and Propofol on the incidence of nausea and vomiting after cataract surgery. Inclusion criteria included patients 50 to 70 years and candidate for elective surgery cataract and exclusion criteria included a ,history of nausea and vomiting after general anesthesia ,history of motion sickness ,severe hypoxia during anesthesia ,prolonged anesthesia ,using ketamine drug ,atvmydat(during general anesthesia) Ranitidine ,Metoclopramide ,severe anxiety and severe obesity. In this study,150people of patients randomized and double blind ,divided into three groups of sevoflurane(50 people),isoflurane(50 people)and propofol(50people).to all patients before induction of general anesthesia per.kg,7cc serum ringer is infusion. 0.5 mg atrakvrym and 1.5 mcg mgr fentanyl are used for induction of anesthesia in all three groups of 3mg of sodium thiopental is used. In order to continue anesthesia in first group of 1/5mac sevoflurane and%50of oxygen and nitrogen oxide ,in second group of 1.5 isoflurane of propofol and %50 nitrogen oxide and oxygen, in third group of infusion of propofol and %50nitrogen oxide and oxygen are used. After surgery , patients of:1- no nausea,2-nausea expression in question,3-incidence of nausea ,4-nausea and vomiting associated ,in three round (recovery , 3 hours and 6 hours after surgery) are examined.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201210035543N8**

Registration date: **2012-11-17, 1391/08/27**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-11-17, 1391/08/27

Registrant information

Name

Saeide Heidari

Name of organization / entity

School nursing and midwifery, Qom University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Qom University of Medical Sciences

Expected recruitment start date

2013-02-19, 1391/12/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of general anesthesia with Sevofluran, Isoflorane and Propofol in decreasing nausea and vomiting after surgery

Public title

Comparison the effect of general anesthesia with Sevofluran, Isoflorane and Propofol in decreasing nausea and vomiting after surgery

Purpose

Other

Inclusion/Exclusion criteria

Exclusion criteria :history of nausea and vomiting after general anesthesia; history of motion sickness;severe hypoxia during anesthesia prolonged anesthesia; using ketamine drugs atvmydat;ranitidine ;metoclopramide ;severe anxiety and severe obesity. Also, due to interference with the metabolism of isoflurane;Phenobarbital;phenytoin; ethanol and isoniazied.non-using of these drugs as well as other condition are considered for the study. Inclusion criteria, all patients 50 to 70 years admitted for cataract surgery to kamkar hospital.

Age

From **50 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

N/A

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

Qom University of Medical Science

Street address

Qom University of Medical Science ,Lavasani st ,Qom

City

Qom

Postal code

3713649373

Approval date

2012-09-26, 1391/07/05

Ethics committee reference number

11235/34/پ

Health conditions studied

1

Description of health condition studied

Nausea and vomiting

ICD-10 code

R11

ICD-10 code description

Nausea and vomiting

Primary outcomes

1

Description

Nausea and vomiting

Timepoint

Recovery 3 hour and 6 hour after surgery

Method of measurement

Visual and questions

Secondary outcomes

1

Description

Blood pressure

Timepoint

Recovery 3 and 6 hour after surgery

Method of measurement

Monitoring

Intervention groups

1

Description

Group 1: before induction of general anesthesia, all patients per kilogram of body weight,7cc of ringers saline is infusion. 0.5 mg Atracurim and 1.5 µ/gr fentanyl used for induction of anesthesia in all three groups of 3mg of sodium thiopental is used. In order to continue anesthesia , in first group of 1.5 mac sevoflurane and %50 nitrogen oxide and oxygen is used

Category

Treatment - Drugs

2

Description

Group2: before induction of general anesthesia, all patients per kilogram of body weight,7cc of ringers saline is infusion. 0.5 mg Atracurim and 1.5 µ/gr fentanyl used for induction of anesthesia in all three groups of 3mg of sodium thiopental is used. In order to continue anesthesia , in second group of 1.5 mac isoflurane and %50 nitrogen oxide and oxygen is used

Category

Treatment - Drugs

3

Description

Group3: before induction of general anesthesia, all patients per kilogram of body weight, 7cc of ringers saline is infusion. 0.5 mg Atracurim and 1.5 µ/gr fentanyl used for induction of anesthesia in all three groups of 3mg of sodium thiopental is used. In order to continue anesthesia, in third group of infusion of propofol and %50 nitrogen oxide and oxygen is used

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Kamkar hospital

Full name of responsible person

Dr.Mohammad Hossein Pishvaey

Street address

City

Qom

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qom University of Medical Science

Full name of responsible person

Dr Alireza Koohpaei

Street address

Qom University of Medical Science ,Lavasani st ,Qom

City

Qom

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Qom University of Medical Science

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

Qom University of Medical Science

Full name of responsible person

Dr.Mohammad Hossein Pishvaey

Position

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Other areas of specialty/work

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Email

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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