

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

The effect of supplemental oxygen during the procedure on postoperative nausea and vomiting in patients undergoing cataract surgery

Protocol summary

Summary

Aim: Compare the frequency of postoperative nausea and vomiting (PONV) in patients undergoing cataract surgery in two groups: receiving 30% and 80% of oxygen during the operation. This is a double-blind randomized clinical trial without control of placebo, with inclusion criteria: All patients 40-70 years old; ASA (American Society of Anesthesiologists) Class 1, 2 and exclusion criteria: history of postoperative nausea and vomiting; motion sickness; obesity; pregnancy; breastfeeding; smoking; use of antiemetic drugs within 24 hours prior to surgery; migraine headache; duration of surgery more than an hour; diabetes mellitus. In this study two hundred patients candidate for cataract surgery (Under general anesthesia) were randomly divided into two groups: group A (The recipient of 30 percent oxygen) and group B (The recipient of 80 percent supplemental oxygen). We compared the frequency of nausea and vomiting after surgery and its incidence in the two groups discussed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016020126300N1**

Registration date: **2016-09-07, 1395/06/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-09-07, 1395/06/17

Registrant information

Name

Mahshid Ashrafzadeh

Name of organization / entity

Zahedan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Zahedan University of Medical Sciences

Expected recruitment start date

2016-04-20, 1395/02/01

Expected recruitment end date

2016-09-22, 1395/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of supplemental oxygen during the procedure on postoperative nausea and vomiting in patients undergoing cataract surgery

Public title

The effect of oxygen on nausea and vomiting

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: All patients 40-70 years old; ASA (American Society of Anesthesiologists) Class 1, 2
Exclusion criteria: History of postoperative nausea and vomiting; motion sickness; obesity; pregnancy; breastfeeding; smoking; use of antiemetic drugs within 24 hours prior to surgery; migraine headache; duration of the surgery more than one hour; diabetes mellitus.

Age

From **40 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample sizeTarget sample size: **200****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**

Zahedan University of Medical Sciences

Street addressZahedan University of Medical Sciences, Doctor
Hesabi Sq.**City**

Zahedan

Postal code

9816743463

Approval date

2015-08-02, 1394/05/11

Ethics committee reference number

IR.zaums.rbc.1394.196

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

postoperative nausea and vomiting

ICD-10 code

k91.9

ICD-10 code description

Postprocedural disorder of digestive system, unspecified

2**Description of health condition studied**

cataract

ICD-10 code

H26.9

ICD-10 code description

cataract,unspecified

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

Nausea and vomiting

Timepoint

during the first 6 hours after surgery

Method of measurement

Observation and assessment with statistical methods

Secondary outcomes

empty

Intervention groups**1****Description**

Group A: Receiving 30 percent oxygen during surgery

Category

Treatment - Other

2**Description**

Group B: Receiving 80 percent oxygen during surgery

Category

Treatment - Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Alzahra Subspecialty Ophthalmology Hospital

Full name of responsible person

Mahshid Ashrafzadeh

Street address

Shahid Motahhari Boulevard, Azadi squar

City

Zahedan

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**Vice Chancellery for Research and Information
Technology, Zahedan University of Medical Sciences**Full name of responsible person**

Doctor Rafighdoost Hooshang

Street addressZahedan University of Medical Sciences, Doctor
Hesabi sq.**City**

Zahedan

Grant name**Grant code / Reference number**

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

Title of funding source
Vice Chancellery for Research and Information Technology,Zahedan 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
Zahedan University of Medical Sciences

Full name of responsible person
Mahshid Ashrafzadeh

Position
Resident of Anesthesiology

Other areas of specialty/work

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Person responsible for scientific inquiries

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Other areas of specialty/work

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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