

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jul 2026

Comparative evaluation of oxygen therapy with nasal masks and canola on hemoglobin oxygen saturation, nausea and vomiting of the patients in the recovery room

Protocol summary

Summary

The aim of this study was to determine the effectiveness of two methods of oxygen therapy: by nasal cannula and by mask; on the arterial oxygen saturation as well as on nausea and vomiting in patients in the recovery ward at Besat hospital, Sanandaj, Iran in 2013 . We selected 84 patients. Inclusion criteria were willingness to undergo spinal anesthesia. The samples were divided into two groups: oxygen therapy with nasal cannula and oxygen therapy using mask; with a flow rate of 5 L/minute. Then, severity of nausea and vomiting, as well as hemoglobin saturation, in both groups were recorded before the intervention. Subsequently, after 5, 10 and 30 minutes post intervention; those factors were recorded again resulting in comparison of the effects in both groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201307133885N2**

Registration date: **2015-01-12, 1393/10/22**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-01-12, 1393/10/22

Registrant information

Name

Mokhtar Yaghobi

Name of organization / entity

Kurdistan University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 87 1662 7636

Email address

mokhtar-yaghobi@muk.ac.ir

Recruitment status

Recruitment complete

Funding source

Kurdistan University of Medical Sciences

Expected recruitment start date

2013-09-21, 1392/06/30

Expected recruitment end date

2014-03-20, 1392/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of oxygen therapy with nasal masks and canola on hemoglobin oxygen saturation, nausea and vomiting of the patients in the recovery room

Public title

Comparison of the effect of two methods of oxygen therapy on patients in the recovery room

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: no history of gastrointestinal disease; no history of middle ear disease; vertigo and motion sickness; no history of diabetes and high blood pressure; no history of cigarette smoking or alcoholism; no history of immunosuppressive medications; no fever or infection before surgery; no history of abdominal and thoracic surgery; hemoglobin (Hb) level is not less than 12 g/dL;

minimum preoperative fasting time of 6-8 hours; willingness to undergo spinal anaesthesia. Exclusion criteria: patient do not participate in the study for any reason; blood transfusion during surgery; contraindications for post surgery oxygen therapy; patient being illiterate; going under general anesthesia.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **84**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not 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 Kurdistan University of Medical Sciences

Street address

Kurdistan University of Medical Sciences, Pasdaran Avenue,

City

Sanndaj

Postal code

6617713446

Approval date

2013-09-18, 1392/06/27

Ethics committee reference number

14/21648 muk.rec.1392.7

Health conditions studied

1

Description of health condition studied

oxygen therapy

ICD-10 code

T41.5

ICD-10 code description

Therapeutic gases

Primary outcomes

1

Description

Hemoglobin oxygen saturation

Timepoint

Before and after the intervention

Method of measurement

Pulse oximetry

2

Description

Nausea

Timepoint

Before and after the intervention

Method of measurement

VAS scale

3

Description

Vomiting

Timepoint

Before and after the intervention

Method of measurement

List count

Secondary outcomes

1

Description

Mask and nasal cannula oxygen therapy on the severity of nausea

Timepoint

Before and after the intervention

Method of measurement

VAS

2

Description

Effect of nasal cannula oxygen therapy mask and the number of vomiting

Timepoint

Before and after the intervention

Method of measurement

number

Intervention groups

1

Description

The samples were divided into two groups: oxygen therapy with nasal cannula and oxygen therapy using mask; with a flow rate of 5 L/minute. Then hemoglobin saturation before and after intervention are measured in

both groups. Measurement tool is a pulse oxymeter. Then, results will be compared in both groups.

Category

Prevention

2

Description

The samples were divided into two groups: oxygen therapy with nasal cannula and oxygen therapy using mask; with a flow rate of 5 L/minute. Then, severity of nausea and vomiting, as well as hemoglobin saturation, in both groups were recorded before the intervention. Subsequently, after 5, 10 and 30 minutes post intervention; those factors were recorded again resulting in comparison of the effects in both groups.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Recovery room, Besat hospital, Sanandaj, Iran.

Full name of responsible person

Mokhtar Yaghobi

Street address

Kurdistan University of Medical Sciences, Pasdaran Ave., Sanandaj, Iran

City

Sanandaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kurdistan University Of Medical Sciences

Full name of responsible person

Mokhtar Yaghobi

Street address

Kurdistan University of Medical Sciences, Pasdaran Ave.,

City

sanndaj

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kurdistan 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

Kurdistan University of Medical Sciences

Full name of responsible person

Mokhtar Yaghobi

Position

Master of Science in Nursing

Other areas of specialty/work

Street address

Kurdistan University of Medical Sciences, Pasdaran Ave.

City

sanndaj

Postal code

6617713446

Phone

+98 87 1613 1442

Fax

+98 87 1666 0092

Email

mokhtar-yaghobi@muk.ac.ir;
my11202002@yahoo.com

Web page address

moktar.blogfa.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kurdistan University of Medical Sciences

Full name of responsible person

Mokhtar Yaghobi

Position

Masters of Science in Nursing

Other areas of specialty/work

Street address

Kurdistan University of Medical Sciences, Pasdaran Ave, Sanandaj, Iran

City

Sanandaj

Postal code

6617713446

Phone

+98 87 1613 1442

Fax

+98 87 1666 0092

Email

mokhtar-yaghobi@muk.ac.ir;
my11202002@yahoo.com

Web page address

moktar.blogfa.com

Person responsible for updating data

Contact

Name of organization / entity

Kurdistan University of Medical Sciences

Full name of responsible person

Alireza Gharib

Position

Master of Science in Nursing

Other areas of specialty/work**Street address**

Kurdistan University of Medical Sciences, Pasdaran
Street, Sanandaj, Iran

City

Sanandaj

Postal code

6617713446

Phone

+98 87 1613 1286

Fax

+98 87 1666 0092

Email

gharibalireza@yahoo.com

Web page address

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