# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

16 Sep 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)

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**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**

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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*