

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 May 2026

### Comparison of bleeding between two methods of general anesthesia: propofol-Remifentanil versus isoflurane-N2O in endoscopic sinus surgery

#### Protocol summary

##### Summary

In this study we compare two method of anesthesia Propofol and Remifentanil with Isoflurane and N2O. This is a clinical trial on 50 patients with sinus surgery. All surgeries are done by a same surgeon who is blind about the anesthetics drugs. Inclusion criteria include: the patients scheduled for sinus endoscopy and have informed consent and according to American Society of Anesthesiologists have class one and two. Exclusion criteria includes: patients without informed consent, history of high blood pressure, taking blood pressure controllers medicines, anticoagulants, and diabetics. Patients are divided into two groups of anesthesia by Propofol and Isoflurane randomly. Routine monitoring of blood pressure, electrocardiography , deepness of anesthesia and puls oxymetry during surgery is performed. In order to measuring bleeding during surgery, the whole blood in suction container is collected and its hemoglobin is determined.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201202067488N3**

Registration date: **2012-10-14, 1391/07/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-10-14, 1391/07/23

##### Registrant information

##### Name

Mohammadali Haghbin

##### Name of organization / entity

Kerman University of MedicalSciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 34 1211 5814

##### Email address

m.a.haghbin@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

Kerman University of Medical Sciences

##### Expected recruitment start date

2011-03-20, 1389/12/29

##### Expected recruitment end date

2012-08-27, 1391/06/06

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of bleeding between two methods of general anesthesia: propofol-Remifentanil versus isoflurane-N2O in endoscopic sinus surgery

##### Public title

Bleeding in sinus endoscopy in two methods of anesthesia

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: all patients that candidate for endoscopic sinus surgery with ASA classification 1 and 2 that signed informed consent Exclusion criteria : use of anticoagulants or anti-hypertension drugs;any contraindication for use of remifentanil and propofol or other anesthetics; history of diabetes, hypertension; renal or hepatic failure

##### Age

From **16 years** old to **50 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **50**

**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**

Kerman University of Medical Sciences

**Street address**

blvd Jomhoori

**City**

Kerman

**Postal code**

**Approval date**

2012-04-03, 1391/01/15

**Ethics committee reference number**

91.015

**Health conditions studied**

1

**Description of health condition studied**

Chronic Sinusitis

**ICD-10 code**

J32.0

**ICD-10 code description**

Incl.: abscess empyema infection suppuration (chronic) of sinus (accessory)(nasal)

**Primary outcomes**

1

**Description**

Blood pressur

**Timepoint**

per 10 min

**Method of measurement**

mmhg by electronic monitor

2

**Description**

Heart Rate

**Timepoint**

every 10 min

**Method of measurement**

ECG monitor

3

**Description**

Deepness of anesthesia

**Timepoint**

every 10 min

**Method of measurement**

BIS

**Secondary outcomes**

1

**Description**

Bleeding volume

**Timepoint**

End of surgery

**Method of measurement**

By measuring hemoglobin and volume of suction cantainer

**Intervention groups**

1

**Description**

Isofloran 1.2mac N2O

**Category**

Treatment - Drugs

2

**Description**

Remifentanil 0.25micg/kg/min Propofol 150micg/kg /min

**Category**

Treatment - Drugs

**Recruitment centers**

1

**Recruitment center**

**Name of recruitment center**

General Operation Room of Shafa Hospital

**Full name of responsible person**

Rafat Ahmadi

**Street address**

**City**

Kerman

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Kerman University of Medical Sciences( research and technology center)

**Full name of responsible person**

Sedigheh Khezrimoghadam

**Street address**

blvd Jomhoori

**City**

Kerman

**Grant name**

10506

**Grant code / Reference number**

124702

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

Yes

**Title of funding source**

Kerman University of Medical Sciences( research and technology center)

**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**

Kerman University of Medical sciences

**Full name of responsible person**

Dr Haghbin

**Position**

Assistant Professor of Anesthesia

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

Shafa hospital;Shafa Street

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**Postal code****Phone**

+98 34 1211 5814

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m.a.haghbin@gmail.com

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## Person responsible for scientific

## inquiries

**Contact****Name of organization / entity**

Kerman University of Medical Science

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## Person responsible for updating data

**Contact****Name of organization / entity**

Kerman University of Medical Science

**Full name of responsible person**

Dr Haghbin

**Position**

Assistant professor of anesthesia

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

Shafa hospital;Kerman City

**City**

Kerman city

**Postal code****Phone**

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**Fax****Email**

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**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*