

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**

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Assistant professor of anesthesia

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Kerman city

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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