

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jul 2026

effect of propofol and sevofluran on cerebral oxygenation in patients undergoing off pump coronary artery bypass grafting

Protocol summary

Summary

The purpose of this study is Comparison of propofol and sevoflurane anesthesia on cerebral oxygenation in patients undergoing off-pump CABG. This study is a single blind clinical trial.. patients with liver or renal disease, neurological disease, CVA prior to ejection fraction less than 30% are excluded. Using a table of random numbers patients are divided in the two groups.in all patients general anesthesia producer is similar. For maintenance Inhaled Sevoflurane 1.5_2% in group 1 and intravenous propofol 3_5 mg.kg in group 2 is administrated. History of diabetes, smoking, drug use, blood pressure, triglycerides and cholesterol are recorded. Mean arterial blood pressure, pulse rate, rso2, cvp, Lso2 before, during and after the graft is measured and recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201307242963N15**
Registration date: **2013-08-13, 1392/05/22**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-08-13, 1392/05/22

Registrant information

Name

Shekoufeh Behdad

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 1822 1386

Email address

drbehdad@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

vice chancellor for research, Shahid Sadoughi Medical University of Yazd

Expected recruitment start date

2013-03-20, 1391/12/30

Expected recruitment end date

2013-03-20, 1391/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

effect of propofol and sevofluran on cerebral oxygenation in patients undergoing off pump coronary artery bypass grafting

Public title

effect of propofol and sevofluran on cerebral oxygenation in patients undergoing off pump coronary artery bypass grafting

Purpose

Prevention

Inclusion/Exclusion criteria

including criteria:all patients undergoing for off pump coronary artery bypass grafting. excluding criteria: liver disease ; renal disease ; nourologic disease ; CVA ;EF<30%

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

shahid sadoughi medical sciences university

Street address

bahonar square

City

yazd

Postal code

Approval date

2013-01-28, 1391/11/09

Ethics committee reference number

155847/1/17/پ

Health conditions studied

1

Description of health condition studied

Ischaemic heart diseases

ICD-10 code

I20-I25

ICD-10 code description

Ischaemic heart diseases

Primary outcomes

1

Description

cerebral oxygenation

Timepoint

before, during and after of grafts

Method of measurement

INVOS

Secondary outcomes

1

Description

HR

Timepoint

before, during and after of grafts

Method of measurement

ECG

2

Description

MAP

Timepoint

before,during and after of grafts

Method of measurement

barometer

3

Description

CVP

Timepoint

before, during,after of grafts

Method of measurement

arterial catheter

Intervention groups

1

Description

case group:propofol 3_5 mg.kg

Category

Treatment - Drugs

2

Description

control group: sevofluran 1.5_2%

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

afshar hospital

Full name of responsible person

dr habibollah hosseini

Street address

afshar hospital

City

yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

shahid sadoughi medical sciences university

Full name of responsible person

dr hassan mozafari

Street address

bahonar square

City

yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

shahid sadoughi medical sciences university

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

shahid sadoughi medical sciences university

Full name of responsible person

dr shekufeh behdad

Position

associate professor of anesthesiology

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