Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effect of intravenous Vasopressin versus Norepinephrine on correction of cardiac function and renal function in low cardiac out put patient

Protocol summary

Summary

In this double blind clinical trial,40 patients admitted in cardiac department that candidate for CABG ,if prefer to accomplish in study are selected within including and excluding factors.All of them complete personal information sheet then the patients randomized divided in two groups.One group receipt Vasopressin and other group receipt Norepinephrine.In the day of admition 2ml blood sample taken in order to study about Blood Urea Nitrogen and Creainin .In both group before surgery arterial line fixed and blood sample taken for Arterial Blood Gas study.For first group Vasopressin infusion recommended(0.3µg/kg).For the other group Norepinephrine infusion recomended(5µg /min).After end of surgery and before patient transfer to ICU,ABG sample taken and Echocardiography accomplish. 24hour after surgery 2ml blood sampl taken in order to study about Blood Urea Nitrogen and Creainin and investigate renal function. 24hour after surgery hemorhage volume in both group measured.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016051023760N2**
Registration date: **2017-04-05, 1396/01/16**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-04-05, 1396/01/16

Registrant information

Name

Mohammad Reza Jamshidi

Name of organization / entity

Zanjan University of Medical Sciences

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Iran (Islamic Republic of)

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+98 912 334 6346

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Recruitment status

Recruitment complete

Funding source

Zanjan University of Medical Siences search validity

Expected recruitment start date

2016-01-09, 1394/10/19

Expected recruitment end date

2016-11-09, 1395/08/19

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of intravenous Vasopressin versus Norepinephrine on correction of cardiac function and renal function in low cardiac out put patient

Public title

Comparison effect of intravenous Vasopressin versus Norepinephrine on correction of cardiac function and renal function in low cardiac out put patient after CABG in Mosavi hospital at 1394

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusioncriteria:age 30yr and more;cardiac output more than 30%;ASA class1 Exclusion criteria:severe cardiac arrhithmia;heart faliure;cardiogenic shock;unstable hemodynamic;diabet mellitus;pulmonary disease;vascular disease;pulmonary HTN;pathologic

change of liver;emergency CABG

Age

From **30 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

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

Zanjan University of Medical Sciences

Street address

Azadi blvd.

City

Zanjan

Postal code

4515613191

Approval date

2016-01-09, 1394/10/19

Ethics committee reference number

zums.rec.1394.276

Health conditions studied

1

Description of health condition studied

Coronary Artery Disease

ICD-10 code

I25.1

ICD-10 code description

Atherosclerotic heart disease

Primary outcomes

1

Description

Lelft Ventricular Contraction

Timepoint

Before intervention and 4 days afeter intervention

Method of measurement

Echocardiography

2

Description

Mean Arterial Pressure

Timepoint

Before surgery ,Before CPB,During CPB,After CPB and before transer to ICU

Method of measurement

Invasive Blood Pressure Monitoring

3

Description

Serum Creatinin

Timepoint

Before surgery and before transer to ICU

Method of measurement

Laboratory Elisa kit

4

Description

Volume of Hemorrage

Timepoint

End of surgery and every 6 houre until 24 houres after end of surgery

Method of measurement

Mililiter

5

Description

BUN

Timepoint

Before surgery and before transer to ICU

Method of measurement

Laboratory Elisa kit

Secondary outcomes

empty

Intervention groups

1

Description

Intrvention group1:Vasopressin Start infusion of vasopressin0.3µg/kg at off pump time and continu to end of surgery

Category

Treatment - Drugs

2

Description

Intervention group2:Norepinephrine Infusion of

Norepinephrine at off pump time and continue until end of surgery

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Mousavi Hospital

Full name of responsible person

Dr.Mohammad Reza Jamshidi

Street address

Gavazang road

City

Zanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zanjan University Of Medical Sciences

Full name of responsible person

Dr. Alireza Shoghli

Street address

Zanjan University Of Medical Sciences

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Zanjan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zanjan 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

Zanjan University of Medical Siences

Full name of responsible person

Dr.Robab Azizi

Position

Anaesthesiology assistant

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