Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effect of vasopressin and norepinephrine on Renal function of patients undergoing CABG in Emam Khomeini hospital of Ardabil

Protocol summary

Summary

Aim & design: One of the most common heart CABG surgery, the blood vessels in other parts of the body such as the saphenous vein is grafted to the occluded artery, thereby blocking the path disappears. Given the prevalence of the use of inotropic drugs during CABG surgery and renal effects of these drugs in long-term use of low-risk choices necessity, if you have less vasopressin renal complications can be used as a drug of choice inotropic. Hence, we decided to study the effect of vasopressin to reduce bleeding and to maintain renal perfusion and prevent renal dysfunction in patients undergoing CABG surgery compared with norepinephrine, which is used to improve the overall survival of these patient. Inclusion criteria: The criteria for inclusion of participants were age30 and more, had been diagnosed by angiography, and absence of mental problems. Exclusion criteria: Patients who had had chronic renal failure and creatinin more than 1.5, were excluded. Interventions: Vasopressin in 0.01-0.04 U/min when mean arterial pressure 50 mmHg and Norepinephrin in 1-4 µ/ min when mean arterial pressure 50 mmHg Out comes: Blood urine nitrogen Before intervention, after intervention and Creatinin Before intervention, after intervention

General information

Acronym

Open Heart surgery

IRCT registration information

IRCT registration number: **IRCT201412054256N4**
Registration date: **2015-02-14, 1393/11/25**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-02-14, 1393/11/25

Registrant information

Name
Nasrin Samadi

Name of organization / entity
Ardabil University of Medical Sciences

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Iran (Islamic Republic of)

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+98 45 1551 3057

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Recruitment status

Recruitment complete

Funding source

Ardabil University of Medical Sciences

Expected recruitment start date

2015-01-10, 1393/10/20

Expected recruitment end date

2015-06-20, 1394/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of vasopressin and norepinephrine on Renal function of patients undergoing CABG in Emam Khomeini hospital of Ardabil

Public title

Effect of vasopressin and norepinephrine on Renal function of patients undergoing CABG in Emam Khomeini hospital of Ardabil

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 30 years old and more; IHD had been diagnosed by angiography, and absence of mental problems. Exclusion criteria: patients who, had had chronic renal failure and creatinin more than 1.5 were excluded.

Age
No age limit

Gender
Both

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **120**

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
Ardabil university of medical sciences

Street address
Ardabil university of medical sciences

City
Ardabil

Postal code

Approval date
2014-07-27, 1393/05/05

Ethics committee reference number
9114

Health conditions studied

1

Description of health condition studied
Open heart sergury

ICD-10 code
I20-25

ICD-10 code description
Ischaemic heart diseases

Primary outcomes

1

Description
Blood urine nitrogen

Timepoint
Before intervention, after intervention

Method of measurement
Biochemical blood test, urine volume in 24 hours

2

Description
Creatinin

Timepoint
Before intervention, after intervention

Method of measurement
Biochemical blood test, urine volume in 24 hours

Secondary outcomes

1

Description
In crease creatinin, decease clearance creatinin

Timepoint
Before,24 hours after intervention

Method of measurement
Biochemical blood test, urine volume in 24 hours

Intervention groups

1

Description
Vassopressin 0.01-0.04 u/min in artery pressure below 50 mm/Hg

Category
Treatment - Drugs

2

Description
control: Norepinephrine 1-4 u/min in artery pressure below 50 mm Hg

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Emam khomeini hospital of Ardabil

Full name of responsible person
Mohammadi Hassan pour

Street address
sh jedi st, Ardabil,Iran

City
Ardabil

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ardabil University of Medical Sciences
Full name of responsible person
Shahram Habib zadeh
Street address
Ardabil
City
Ardabil
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Ardabil 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

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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