Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison effect of sodium nitroprusside effect on reducing of incidence and duration of atrial fibrillation after coronary artery bypass graft surgery

Protocol summary

Summary

This study compared the effect of Sodium nitroprusside in reducing the incidence and duration of atrial fibrillation after coronary Artery Bypass graft surgery using cardio pulmonary Bypass is performed. People over 18 years who were only undergoing coronary bypass surgery and unknot previous history of arrhythmia and anemia and sever valvular disease and systematic disease studied and the sample size is 52 people, which is 26 case and 26 control. During surgery and the start of the rewarming period for minutes in case 9% up given nitro preside and in the control group dextrose water 5% as a placebo. So that the mean arterial pressure kept 65 MMHg. Then electrocardiogram daily for five dugs to prove the start and end of atrial fibrillation episodes will be logged.

General information

Acronym

does not have

IRCT registration information

IRCT registration number: **IRCT2017031533055N2**
Registration date: **2017-05-30, 1396/03/09**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-05-30, 1396/03/09

Registrant information

Name

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Name of organization / entity

JundiShapur University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Ahwaz Jundishapur University of Medical Sciences, Department of Research and Technology Development

Expected recruitment start date

2016-04-20, 1395/02/01

Expected recruitment end date

2016-12-20, 1395/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison effect of sodium nitroprusside effect on reducing of incidence and duration of atrial fibrillation after coronary artery bypass graft surgery

Public title

Comparison effect of sodium nitroprusside effect on reducing of incidence and duration of atrial fibrillation after coronary artery bypass graft surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All patients who underwent coronary artery bypass surgery are; patients older than 18 years; would like to participate in the study. Exclusion criteria: history of atrial fibrillation; history of surgery for coronary artery bypass; a history of severe disease; valvular; surgery to repair or replace the valve; the candidate of

the current surgical repair or replace the valve; atrium size greater than normal echo cardiogram before surgery; history of anemia or severe electrolyte abnormalities before surgery; history of thyroid disease; syndrome sick sinus; bradycardia and significant changes in atrial conduction; patients with a permanent pacemaker fitted.

Age
From **18 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **52**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features
This study is a randomized, double-blind, prospective, randomized controlled study for comparison of the effect of sodium nitroprusside in reducing the incidence and duration of atrial fibrillation after coronary artery bypass graft surgery in patients who are at the heart of Ahwaz Golestan hospital Bbymarstan you will Shvndanjam. Before the operation the patients provided written informed consent form and questionnaire included age, sex, weight, BMI original complaint, a family history of heart disease pre Machvr (first-degree relative under 65 and men under 55 years old), presence of hypertension (pressure ≥140 systolic and / or diastolic BP ≥90), dyslipidemia (increased triglycerides, cholesterol, LDL, decreased HDL), diabetes mellitus (fasting blood glucose ≥ mg / dl 126 (smoking and use of information by researcher interviewing patients the case is completed.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ahwaz JundiShapur University of Medical Sciences

Street address
Ahwaz Golestan University of Medical Sciences Jundishapur

City
Ahwaz

Postal code

Approval date
2017-02-07, 1395/11/19

Ethics committee reference number
IR.AJUMS.REC.1395.751

Health conditions studied

1

Description of health condition studied
Atrial Fibrillation

ICD-10 code
I48

ICD-10 code description
Atial Fibrillation and flutter

Primary outcomes

1

Description
The incidence of atrial fibrillation after coronary artery bypass surgery

Timepoint
Within 5 days after coronary artery bypass surgery every day

Method of measurement
Within 5 days after coronary artery bypass surgery patients daily 12-lead ECG is taken. Start and end of each episode of atrial Fyrylasyvn recorded by the doctor.

2

Description
Time Dora atrial fibrillation after coronary artery bypass surgery

Timepoint
Within 5 days after coronary artery bypass surgery every day

Method of measurement
Within 5 days after coronary artery bypass surgery patients daily 12-lead ECG is taken. Start and end of each episode of atrial Fyrylasyvn recorded by the doctor.

Secondary outcomes

1

Description
Onset atrial fibrillation after coronary artery bypass surgery

Timepoint
Within 5 days after surgery daily

Method of measurement
12-lead ECG is taken daily for 5 days.

Intervention groups

1

Description

During the surgical treatment group and re-warming period starting dose of sodium nitroprusside Mg / Kg / Min 5-1% for 60 minutes will receiveSo that the mean arterial pressure without drugs or drugs Anytrvp increase of intravascular volume is maintained at 65 mm Hg.

Category

Treatment - Drugs

2

Description

Patients in the control group from start to finish re-serum dextrose water 5 percent to 200 cc, but 60 minutes into receive.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

The Training Center, Golestan Hospital

Full name of responsible person

Zahra Fassihi

Street address

Golestan Alley, Golestan Hospital

City

Ahwaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahwaz JundiShapur University of Medical Sciences

Full name of responsible person

Behzad Sharif Makhmalzadeh

Street address

Ahwaz Jundishapur University, Department of Research and Technology Development

City

Ahwaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahwaz JundiShapur 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

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Full name of responsible person

Seyed Mostafa Ariafar

Position

Professor of Cardiology

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