

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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 unknotted previous history of arrhythmia and anemia and severe 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 nitroprusside 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 days 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

Zahra Fassihi

Name of organization / entity

JundiShapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 3222 8037

Email address

fasihi.z@ajums.ac.ir

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 \geq 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 receive So 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**

Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person

Seyed Mostafa Ariafar

Position

Professor of Cardiology

Other areas of specialty/work**Street address**

The Training Center, Golestan Hospital

City

Ahwaz

Postal code**Phone**

+98 61 3374 3352

Fax**Email**

Armx51@yahoo.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person

Mohammad Ali Sheikhi

Position

Cardiovascular Surgery

Other areas of specialty/work**Street address**

Ahwaz, Golestan Hospital, Department of Heart

City

Ahwaz

Postal code**Phone**

+98 61 3374 3036

Fax**Email**

Sheikhi.MA@YAHOO.COM

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person

Zahra Fassihi

Position

Student

Other areas of specialty/work**Street address**

The Training Center, Golestan Hospital

City

Ahwaz

Postal code

Phone

+98 61 3374 3036

Fax**Email**

Drfassihi92@gmail.com fasihi.z@ajums.ac.ir

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