

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Effects of vasopressin on the improvement of cardiac function in patients with ventricular dysfunction during separation from cardiopulmonary pump

Protocol summary

Summary

The purpose of this study was to reduce the effects of heart surgery. For this purpose, 100 patients underwent elective CABG with EF: 35-50% with no history of kidney or liver failure, or diabetes or seizures preoperatively referred to Masih Daneshvari Hospital. Divided into 2 groups: the first group received low-dose vasopressin started 30 minutes before the end of CPB and so it continues after 1h, The second group received saline by the same method. And the effect of vasopressin on the improvement of cardiac function in patients during separation from cardiopulmonary pump reviews. And the need for inotropic support, arrhythmia and ischemia evaluated.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015010212642N7**
Registration date: **2015-01-18, 1393/10/28**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2015-01-18, 1393/10/28

Registrant information

Name

Majid Golestani Eraghi

Name of organization / entity

Shahid Beheshti University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 3336 0547

Email address

dr.golestani@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Deputy for Research and Technology Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2015-02-20, 1393/12/01

Expected recruitment end date

2015-06-22, 1394/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of vasopressin on the improvement of cardiac function in patients with ventricular dysfunction during separation from cardiopulmonary pump

Public title

Effect of vasopressin on complications of cardiac surgery

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: CABG surgery; elective surgery; EF=30-50% exclusion criteria: emergency surgery; Concomitant valve surgery and coronary; renal and liver failure before surgery; diabetes melitus; allergy to vasopressin; history of seizure

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 100

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee, Deputy for Research and Technology Shahid Beheshti University of Medical Sciences

Street address

Daneshjoo Ave, Velenjak

City

Tehran

Postal code

Approval date

2013-06-25, 1392/04/04

Ethics committee reference number

Sbmu1.REC.1392.11

Health conditions studied

1

Description of health condition studied

cardiac disease

ICD-10 code

I25.1

ICD-10 code description

Atherosclerotic heart disease

Primary outcomes

1

Description

blood pressure

Timepoint

Before, during and after cardiopulmonary bypass

Method of measurement

mmHg with Using a mercury manometer

2

Description

heart rate

Timepoint

Before, during, and after CPB

Method of measurement

with pulseoxymeter device

Secondary outcomes

1

Description

blood lactate

Timepoint

Before, during, and after CPB

Method of measurement

in term of mmol/l with using arterial blood analyser device

Intervention groups

1

Description

vasopresin with 0.03 microgr/kg dosage starting 30minute before end of CPB and continue until 1hour after that.

Category

Prevention

2

Description

normal saline with 0.03 microgr/kg dosage starting 30minute before end of CPB and continue until 1hour after that.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Masih Daneshvari Hospital

Full name of responsible person

Majid Golestani Eraghi

Street address

Darabad Ave

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy for Research and Technology Shahid Beheshti

University of Medical Sciences

Full name of responsible person

Afshin Zarghi

Street address

Daneshjoo Ave, Velenjak

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Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy for Research and Technology Shahid Beheshti 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Department of Anesthesia Shahid Beheshti University Of Medical Science

Full name of responsible person

Alireza Jahangirifard

Position

Fellowship of Cardiac Anesthesia

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Anesthesia group, Shahid Beheshti University of Medical Sciences

Full name of responsible person

Majid Golestani Eraghi

Position

Fellowship specialty intensive care

Other areas of specialty/work

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Masih Daneshvari Hospital, Darabad Ave

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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