Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of desmopressin with placebo, in Hemostasis after heart transplant surgery

Protocol summary

Summary

The purpose of this study is Comparison of desmopressin with placebo, in Hemostasisafter heart transplant surgery. Therefore, Heart transplant candidates with no previous history of thoracic surgery, chronic respiratory disease and hereditary or acquired coagulation disorders Will be studied. 40 patients referring to Masih Hospital and Heart Center Shahid Rajaee divided into 2 groups. In one group 2 mL of saline injection and another group that 0.3 micrograms per killogeram desmopressin with volume of 2 ml injection then have to determine the hemostatic medicine, blood volume Chest tube, blood volume and FFP for the first 24 hours and need a second surgery in the first 48 hours after surgery are evaluated.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015010512642N8**
Registration date: **2015-01-25, 1393/11/05**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2015-01-25, 1393/11/05

Registrant information

Name

Majid Golestani Eraghi

Name of organization / entity

Shahid Beheshti University Of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2015-02-04, 1393/11/15

Expected recruitment end date

2015-06-05, 1394/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of desmopressin with placebo, in Hemostasis after heart transplant surgery

Public title

The effect of desmopressin in reducing the incidence of heart transplant surgery complication

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: age between 20-70 years old; Heart transplant surgery exclusion criteria: History of previous surgery on chest; Bleeding disorders and hemophilia; Patients with preoperative coagulation tests and platelet be disrupted; Contraindications for use of DDAVP; History of deep vein thrombosis-hematologic disease- carotid plaque due to sever narrowing; Chronic obstructive pulmonary disease

Age

From **20 years** old to **70 years** old

Gender

Both

Phase
1-2
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
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Vice Chancellor for Research and Technology Ethics Committee Shahid Beheshti University of Medical S
Street address
Daneshjoo Ave, Velenjak
City
Tehran
Postal code
Approval date
2010-08-20, 1389/05/29
Ethics committee reference number
Sbmu1.REC.1393.78

Health conditions studied

1

Description of health condition studied
transplant cardiac surjery
ICD-10 code
Y83.0
ICD-10 code description
Surgical operation with transplant of whole organ

Primary outcomes

1

Description
Chest tube blood volume
Timepoint
During the first 24 hours after surgery
Method of measurement
cc with a calibrated container

2

Description
Blood volume required for transfusion
Timepoint
During the first 24 hours after surgery
Method of measurement
Based on the number of units transfused

3

Description
FFP volume required for transfusion
Timepoint
During the first 24 hours after surgery
Method of measurement
Based on the number of units injected

Secondary outcomes

1

Description
thrombin time
Timepoint
before and after transplant surjery
Method of measurement
According to the second with lab kit

2

Description
platelet count
Timepoint
Before and after transplantat surjery
Method of measurement
Based on the number of platelets per ml of blood

Intervention groups

1

Description
Prescribed 0.3ug / kg desmopressin with 2 ml volume before transplant surgery
Category
Prevention

2

Description
2 mL of saline administered before transplantation
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

2

Recruitment center
Name of recruitment center
Tehran Heart Surgery Center
Full name of responsible person
Majid Golestani Eraghi
Street address
Valiasr Ave
City
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research and Technological Shahid Beheshti University of Medical Sciences
Full name of responsible person
Afshin Zarghi
Street address
Daneshjoo Ave, Velenjak
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice Chancellor for Research and Technological 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 Anesthesiology, Shahid Beheshti University of Medical Sciences
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Alireza Jahangirifard
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Person responsible for updating data

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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