

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 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 Hemostasis after 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)

##### Phone

+98 21 3336 0547

##### Email address

dr.golestani@arakmu.ac.ir

##### 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 surgery

#### 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 surgery

#### Method of measurement

According to the second with lab kit

### 2

#### Description

platelet count

#### Timepoint

Before and after transplantat surgery

#### 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**

Tehran

**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

**City**

Tehran

**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**Full name of responsible person**

Alireza Jahangirifard

**Position**

Cardiac Anesthesia Fellowship

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alirezajahangiri@sbmu.ac.ir

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University of Medical Sciences**Full name of responsible person**

Majid Golestani Eraghi

**Position**

Fellowship subspecialty care

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

Masih Daneshvari Hospital, Darabad Ave

**City**

Tehran

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dr.golestani@sbmu.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*