

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

The effect of desmopressin in reducing bleeding after cardiac surgery in patients receiving antiplatelet drugs in comparison with placebo

Protocol summary

Summary

The purpose of this study is the evaluation of effect of desmopressin in reducing bleeding after cardiac surgery in patients receiving antiplatelet drugs. After approval of the proposal and obtaining the approval of the ethics committee, patients older than 18 years (40 patients in two groups) who underwent CABG and did not interrupt their anti platelets agents (clopidogrel or aspirin) a week before surgery will be enrolled in this study. Patients who have a history of coagulation disorders will be excluded. All patients will pre-medicate before surgery. After induction of anesthesia bleeding time (BT) will be measured. CABG surgery will be performed under CPB. After reverses of heparin by protamine, patients will be divided into two groups. Group 1 (cases)(20 patients) DDAVP nasal spray two puffs and in group 2 (control)(20 patients) normal saline nasal spray two puffs into the patient's nose will use and patients will be transferred to the ICU . In ICU blood samples for assessment of PT, PTT, INR, Platelet, ACT will be sent after an hour of admission. BT will be measured again. Six hours later re- sprays will be prescribed. Patient's vital signs , amount of hemorrhage, administration of blood products , prescription drugs for improving coagulation, required re-operation to control bleeding, the sternum was left open, patient mortality, length of ICU stay, duration of mechanical ventilation will be recorded .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013092114728N1**

Registration date: **2014-03-19, 1392/12/28**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-03-19, 1392/12/28

Registrant information

Name

Kamran Shadvar

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1334 1994

Email address

shadvark@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2014-02-04, 1392/11/15

Expected recruitment end date

2014-08-06, 1393/05/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of desmopressin in reducing bleeding after cardiac surgery in patients receiving antiplatelet drugs in comparison with placebo

Public title

The effect of desmopressin in reducing bleeding after cardiac surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: CABG surgery under CPB, Age over 18 years, Anti-platelet drugs for one week before surgery
Exclusion Criteria: Heart surgery (other than surgery to control bleeding), coagulation disorders, anticoagulation before surgery, patient dissatisfaction, sensitivity to DDAVP, kidney disease, liver disease

Age

From **18 years** old to **85 years** old

Gender

Both

Phase

N/A

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**

Tabriz University of Medical Sciences

Street address

Central building of Tabriz University of Medical Sciences, Daneshgah street

City

Tabriz

Postal code**Approval date**

2014-01-25, 1392/11/05

Ethics committee reference number

92175

Health conditions studied**1****Description of health condition studied**

Bleeding after cardiac surgery

ICD-10 code

D68/8

ICD-10 code description

Other specified coagulation defects

Primary outcomes**1****Description**

Amount of Bleeding

Timepoint

Every 6 hours

Method of measurement

ML

Secondary outcomes**1****Description**

Duration of ICU stay

Timepoint

After Intervention

Method of measurement

Hour

Intervention groups**1****Description**

Administration of DDAVP nasal spray 2 puffs before admission to ICU and 6 hours later

Category

Treatment - Drugs

2**Description**

Administration of saline nasal spray 2 puffs before admission to ICU and 6 hours later in control group

Category

Placebo

Recruitment centers**1****Recruitment center****Name of recruitment center**

Madani Heart Center

Full name of responsible person

Dr Kamran Shadvar

Street address

Central building of Tabriz University of Medical Sciences, Daneshgah street

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Sponsors / Funding sources**1****Sponsor**

Name of organization / entity

Tabriz University of Medical Sciences
Full name of responsible person
 Magami
Street address
 Central building of Tabriz University of Medical Sciences, Daneshgah street
City
 Tabriz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Tabriz 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

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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