

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

24 Jun 2026

### Preventive use of ascorbic acid for postoperative atrial fibrillation in patients undergoing coronary artery bypass graft surgery

#### Protocol summary

##### Summary

Post operative atrial fibrillation is one of most prevalent complications after cardiac surgery. In this study we try to investigate Ascorbic acid effect on incidence of postoperative atrial fibrillation in patients undergoing coronary artery bypass graft surgery. Three hundred and thirty elective isolated coronary artery bypass graft surgery patients are included. Patients with previous arrhythmia and hyperthyroidism are excluded. Patient characteristics including age, gender, EF, functional class and LA size are checked. In case group (165 patients) 24 hours prior to surgery 2 grams of vitamin C (IV) is given and in next 48 hours in ICU and 48 hours of ward 500 mg per day is given. The control group are given placebo. Two groups are compared for atrial fibrillation occurrence by monitoring in ICU and 3 times a day checking ECG in the ward. Incidence of atrial fibrillation in compared in both groups.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2016090228945N2**  
Registration date: **2017-05-05, 1396/02/15**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-05-05, 1396/02/15

##### Registrant information

##### Name

Amir Mirmohammadsadeghi

##### Name of organization / entity

Isfahan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 31 3260 0961

##### Email address

am\_sadeghi@med.mui.ac.ir

##### Recruitment status

##### Recruitment complete

##### Funding source

hospital and researcher

##### Expected recruitment start date

2016-12-05, 1395/09/15

##### Expected recruitment end date

2017-01-20, 1395/11/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Preventive use of ascorbic acid for postoperative atrial fibrillation in patients undergoing coronary artery bypass graft surgery

##### Public title

Preventive use of ascorbic acid for postoperative atrial fibrillation

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

inclusion: no arrhythmia, coronary artery bypass alone, normal sinus rhythm preoperatively exclusion criteria: emergency operation, antiarrhythmic drug postoperatively

##### Age

From **18 years** old to **100 years** old

##### Gender

Both

## Phase

2

## Groups that have been masked

No information

## Sample size

Target sample size: 330

## Randomization (investigator's opinion)

Not randomized

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Medical Ethics Committee of the University of Medical Sciences

##### Street address

Isfahan University of Medical Science

##### City

Isfahan

##### Postal code

#### Approval date

2016-10-29, 1395/08/08

#### Ethics committee reference number

IR.MUI.REC.1395.4.049

## Health conditions studied

### 1

#### Description of health condition studied

cardiac arrhythmia

#### ICD-10 code

197.8

#### ICD-10 code description

Other postprocedural disorders of circulatory system, not elsewhere classified

## Primary outcomes

### 1

#### Description

atrial fibrillation

#### Timepoint

3 days in ICU then in ward

#### Method of measurement

ECG

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: 165 patients receive vitamin C

#### Category

Treatment - Drugs

### 2

#### Description

Control group: 165 patients receive placebo

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Isfahan Sina Hospital

##### Full name of responsible person

Dr Amir Mirmohammad Sadeghi

##### Street address

Isfahan Sina Hospital

##### City

Isfahan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Islamic Azad University, Najafabad branch

##### Full name of responsible person

Vice chancellor for Research

##### Street address

Islamic Azad University, Najafabad branch, Najafabad, Isfahan, Iran

##### City

Najafabad

#### 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, Islamic Azad University, Najafabad branch

#### 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*

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**Web page address**

## Person responsible for general inquiries

### Contact

**Name of organization / entity**  
Islamic Azad University, Najafabad branch  
**Full name of responsible person**  
Amir Mirmohammad Sadeghi  
**Position**  
Cardiac Surgeon  
**Other areas of specialty/work**  
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## Person responsible for updating data

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## Person responsible for scientific inquiries

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Isfahan  
**Postal code**

## 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*