

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effect of oral Vitamin C on rate of Atrial Fibrillation in Post-CABG patients referred to BuAli Sina hospital in Qazvin during 2017-2018

Protocol summary

Study aim

Evaluation of the reduction in the incidence of atrial fibrillation following the administration of vitamin C in patients with open heart surgery

Design

Randomized controlled trial, Triple blinded, Phase 2 on 140 patients, Randomisation was done with used a random number table

Settings and conduct

By multi-stage random sampling, among patients undergoing CABG at Buali Sina Hospital in Qazvin

Participants/Inclusion and exclusion criteria

Inclusion criteria: all patients candidates for coronary artery bypass grafting and exclusion criteria: history of previous atrial fibrillation; having a permanent pacemaker; any definite or possible evidence of any ventricular or supraventricular arrhythmia; severe left ventricular enlargement; severe valvular heart disease; myocardial infarction and ejection fraction less than or equal to 30%.

Intervention groups

Group "A" is the intervention group for which vitamin C at a daily dose of 1 gram was started 24 hours before surgery and continued until 48 hours after surgery. While patients in group "B" or the same control group were prescribed placebo. It should be noted that in both groups, due to the proven effect of atorvastatin in reducing the incidence of atrial fibrillation in order not to deprive patients at a dose of 40 mg daily was prescribed.

Main outcome variables

Incidence of AF in patients after CABG

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201102049232N2**

Registration date: **2021-01-10, 1399/10/21**

Registration timing: **retrospective**

Last update: **2021-01-10, 1399/10/21**

Update count: **0**

Registration date

2021-01-10, 1399/10/21

Registrant information

Name

Ali Pazoki

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 28 3332 6034

Email address

a.pazoki@qums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2017-04-28, 1396/02/08

Expected recruitment end date

2018-07-31, 1397/05/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of oral Vitamin C on rate of Atrial Fibrillation in Post-CABG patients referred to BuAli Sina hospital in Qazvin during 2017-2018

Public title

Effect of oral Vitamin C on rate of Atrial Fibrillation in Post-CABG patients

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

All patients that are candidate for coronary artery bypass graft surgery

Exclusion criteria:

History of previous atrial fibrillation Having a permanent pacemaker Any conclusive or probable evidence of any ventricular or supraventricular arrhythmias Severe valvular disease heart attack EF $\leq$ 30%

Age

From 20 years old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator
- Data and Safety Monitoring Board

Sample size

Target sample size: 140

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

This study is three-blind and each patient receives a code and both patients who received vitamin C and did not receive vitamin C. are performed by one of the nurses. The main collaborators of the project and the patients and the person who finally analyzes the results are all unaware of which patient is in which group.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Qazvin university of Medical Sciences

Street address

Qazvin university of medical science, Shahid Bahonar blvd.

City

Qazvin

Province

Qazvin

Postal code

3419759811

Approval date

2017-03-21, 1396/01/01

Ethics committee reference number

IR.QUMS.REC.1397.406

Health conditions studied

1

Description of health condition studied

Atrial Fibrillation

ICD-10 code

I48

ICD-10 code description

Atrial fibrillation and flutter

Primary outcomes

1

Description

Incidence of atrial fibrillation after coronary artery surgery

Timepoint

Along with the intervention

Method of measurement

Number of cases and counting

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: There are 70 patients in the complementary or intervention group. These patients will receive 1 gram of vitamin C orally the day before (24 hours before) surgery and will continue for up to 48 hours after surgery.

Category

Prevention

2

Description

Control group: There are 70 patients in the control group. These patients will receive the placebo orally the day before (24 hours before) surgery and will continue for up to 48 hours after the operation.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

BuAli Sina Hospital

Full name of responsible person

Ali Pazoki

Street address

BuAli Sina Hospital, Booali Sina Street

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Qazvin

Province

Qazvin

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34199-15315

Phone

+98 28 3333 6001

Email

dralipazoki@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Mohammad Mahdi Emamjomeh

Street address

BuAli Sina Hospital, Booali Sina Street

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memamjomeh@qums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

No

Title of funding source

Qazvin University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Ali Pazoki

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Cardiology

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

Information about main outcome and results

When the data will become available and for how long

Late 1400

To whom data/document is available

Researchers working in academic institutions

Under which criteria data/document could be used

For scientific exploitation

From where data/document is obtainable

Ali Pazoki

What processes are involved for a request to access data/document

Send an email explaining the reason for the request

Comments