

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of Amiodarone versus Metoprolol in treating atrial fibrillation after coronary artery bypass grafting

Protocol summary

Summary

The aim of this study was the comparison between Amiodarone and Metoprolol in the treatment of atrial fibrillation after coronary artery bypass grafting. The study was a double blind randomized clinical trial. We enrolled patients who were candidate for coronary artery bypass grafting and developed new onset atrial fibrillation after surgery in Amir-al-Momenin hospital in Arak province, Iran. These patients were divided randomly to Amiodarone (A) and Metoprolol (M) groups by random numbers table. Each group consisted of 73 cases. We prescribed 300 milligram Amiodarone state and 1 milligram per kilogram Amiodarone in the first 6 hours and then 0.5 milligram per kilogram Amiodarone for the next 18 hours in Amiodarone group. We also prescribed 1-3 milligram per kilogram per hours Metoprolol for the first 24 hours after surgery in Metoprolol group. We continued drug administration for 24 hours in both groups. We recorded atrial fibrillation frequency by ECG in both groups. Inclusion criteria: patients undergoing coronary artery bypass graft; being at the age of 45-80 years; absence of coronary artery surgery history; absence of atrial fibrillation history; not being anti Arrhythmia consumer. Exclusion criteria: patients who need defibrillation treatment; need surgery other than coronary artery bypass graft; patients who need urgency coronary artery bypass grafting.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017010920258N26**

Registration date: **2017-02-23, 1395/12/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-23, 1395/12/05

Registrant information

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Name of organization / entity

Arak University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor of Research, Arak University of Medical Sciences

Expected recruitment start date

2015-12-22, 1394/10/01

Expected recruitment end date

2016-12-21, 1395/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Amiodarone versus Metoprolol in treating atrial fibrillation after coronary artery bypass grafting

Public title

Treatment atrial fibrillation after coronary artery bypass grafting

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients undergoing coronary artery bypass graft; being at the age of 45-80 years; absence of coronary artery surgery history; absence of atrial fibrillation history; not being anti Arrhythmia consumer. Exclusion criteria: patients who need defibrillation treatment; need surgery other than coronary artery bypass graft; patients who need urgency coronary artery bypass grafting.

Age

From **45 years** old to **80 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **146**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomize by table of random numbers

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee Arak University Of Medical Sciences

Street address

Dr Mohammad Rafiei, Vice chancellor for research,
Payambar azam complex, Basij squre, Sardasht, Arak

City

Arak

Postal code

38149578558

Approval date

2015-12-21, 1394/09/30

Ethics committee reference number

IR.ARAKMU.REC.1394.239

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

Atrial fibrillation

Timepoint

After surgery

Method of measurement

ECG

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: We prescribed 300 milligram Amiodarone state and 1 milligram per kilogram Amiodarone in the first 6 hours and then 0.5 milligram per kilogram Amiodarone for the next 18 hours in Amiodarone group.

Category

Treatment - Drugs

2

Description

Intervention group 2: We prescribed 1-3 milligram per kilogram per hours Metoprolol for the first 24 hours after surgery in Metoprolol group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amiralmomenin hospital

Full name of responsible person

Dr Alireza Kamali

Street address

Amiralmomenin hospital, Sardasht, Arak

City

Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Arak University of

Medical Sciences
Full name of responsible person
 Dr Mohammad Rafiee
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 Vice chancellor for research, Payambar Azam
 Complex, Basij square, Sardasht, Arak
City
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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, Arak 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

Name of organization / entity
 Arak University of Medical Sciences
Full name of responsible person
 Dr Alireza Kamali
Position
 Anesthesiologist
Other areas of specialty/work
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Medical student

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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