

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Evaluation of the efficacy of angiotensin inhibitor before coronary bypass on hemodynamic changes and need to vasoactive medicines

Protocol summary

Summary

According to anti-hypertensive drugs should be withdrawn before surgery, nowadays it is accepted that some drugs effectively control systemic blood pressure to assure its desirable therapeutic control. So in this study, the efficacy of angiotensin inhibitors before the CABG surgery on hemodynamic changes was surveyed. the inclusion criteria for the patients were having the history of involvement of the coronary arteries, the blockage of two to three major vessels, having the history of high blood pressure, and for the use or not use of angiotensin inhibitor drugs in patients to control blood pressure and The exclusion criteria of the study included the history of renal and hepatic failure, pregnancy, record of angioedema, allergy to angiotensin inhibitor. For the research 54 patients randomly were selected from the patients hospitalized in the cardiac surgery ward of Ahvaz Golestan Hospital. They were divided into two groups of 27 patients. The first group did not use angiotensin inhibitor to control blood pressure but the second group consumed it. In these groups, the amount of vasoactive drug needed for the patients and the efficiency of angiotensin inhibitor on hypotension rate before , during, and after surgery, and the amount of vasopressor drugs which needed were surveyed .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013100514862N1**
Registration date: **2013-11-23, 1392/09/02**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-11-23, 1392/09/02

Registrant information

Name

Mansooreh Atarian

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2013-01-15, 1391/10/26

Expected recruitment end date

2013-07-20, 1392/04/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the efficacy of angiotensin inhibitor before coronary bypass on hemodynamic changes and need to vasoactive medicines

Public title

The effect of blood pressure medicines in Coronary Artery operation

Purpose

Treatment

Inclusion/Exclusion criteria

the inclusion criteria: involvement of the coronary arteries; the blockage of two to three major vessels; history of high blood pressure; hyperlipidemia; the use of

angiotensin inhibitor drugs; none use of angiotensin inhibitor drugs The exclusion criteria:renal failure; hepatic failure; pregnancy; record of angioedema; allergy to angiotensin inhibitor

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 54

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ahvaz Jundishapur University of Medical Sciences

Street address

Ahvaz Jundishapur University of Medical Science ,
Ahvaz ,Iran

City

Ahvaz

Postal code

iran

Approval date

2013-01-08, 1391/10/19

Ethics committee reference number

ETh-664

Health conditions studied

1

Description of health condition studied

Cardiovascular disease

ICD-10 code

I25.1

ICD-10 code description

Atherosclerotic heart disease

Primary outcomes

1

Description

Blood-Oxygen Saturation

Timepoint

Pre Operation, Operation, Post Operation

Method of measurement

Pulse Oximeter

2

Description

blood pressure

Timepoint

pre Operation, Operation, Post operation

Method of measurement

Pressure Measurement

Secondary outcomes

empty

Intervention groups

1

Description

This study included 27 persons (control group) who did not use angiotensin inhibitors to control blood pressure. They used drugs such as 20 mg Metoral four times a day and 50 mg Atenolol twice a day in order to control blood pressure. In this group, their hemodynamic changes were evaluated before, during, and after the CABG surgery.

Category

Treatment - Drugs

2

Description

The other group included 27 persons (experimental group) who received the angiotensin inhibitor with the dosage of 25 mg twice a day and underwent surgery by general anesthesia. The experiment group patients, who are explained above, used only blood pressure medication or if they received a second drug like β -blocker, the dosage forms would be the same. In this group of patients, the needed amount of vasoactive drugs, the efficacy of angiotensin inhibitor on the hypotension rate during surgery, and induction, and the needed amount of vasopressor drugs were surveyed

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Golestan Hospital

Full name of responsible person

Atarian Mansooreh

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

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Position

Associate professor

Other areas of specialty/work

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Deputy Ahvaz Jundishapur University of Medical
Sciences

Full name of responsible person

Mostafa Fegghi

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Ahvaz Jundishapur University of Medical
Sciences, Golestan St, Ahvaz, Iran

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Ahvaz

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice Deputy Ahvaz Jundishapur 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

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Atarian Mansooreh

Position

Resident

Other areas of specialty/work

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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