Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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According to anti-hypertensive drugs should be withdrawn before surgery, nowadays it is accepted that some drugs effectively control systemic blood pressure to assure its desirable therapeutic control.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 patiants. 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

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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 Saturaion

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

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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
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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 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

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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