

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jun 2026

Ascorbic acid effectiveness in prevention of contrast mediated nephropathy in patients underwent coronary angiography

Protocol summary

Summary

This study designed for assess efficacy of ascorbic acid to prevention of contrast induced nephropathy in patients undergone coronary angiography in heart center Fatemeh Zahra hospital in sari town during 1392-93. This study done as prospective randomized double blind clinical trail with control group. Inclusion criteria:All patients admitted for coronary angiography in Mazandaran Heart Center in sari in 1392-93. Exclusion criteria: End stage renal disease; creatinin above 3 or Glumerolar filtration rate below 30 ml/min; Administration of intra venues contrast media in last 6 days; use of ascorbic acid daily in last week before coronary angiography; sever hypertention ; severe heart failure (NYHA class 3-4) 320 patients entered ,with 160 in case and control group respectively. Patients in case group underwent administration of 3 grams ascorbic acid at least 2 hour before procedure and then 2 grams in first night and morning after procedure .In control group patients gives placebo in same doses .All patients underwent hydration as standard protocol. Serum creatinin measured one day before and then 3-5 days after coronary angiography .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015030918741N1**

Registration date: **2015-10-16, 1394/07/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-10-16, 1394/07/24

Registrant information

Name

Babak Bagheri

Name of organization / entity

Mazandaran university of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Mazandaran University of Medical Sciences

Expected recruitment start date

2013-09-10, 1392/06/19

Expected recruitment end date

2015-02-01, 1393/11/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Ascorbic acid effectiveness in prevention of contrast mediated nephropathy in patients underwent coronary angiography

Public title

Vitamin C effectiveness in prevention of contrast mediated nephropathy in patients underwent coronary angiography

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria: All the patients who underwent angiography and did not meet exclusion criteria

Exclusion criteria: End stage renal disease; creatinin above 3 or Glumerolar filtration rate below 30 ml/min; Administration of intra venues contrast media in last 6 days; use of ascorbic acid daily in last week before coronary angiography; sever hypertention ; severe heart failure (NYHA class 3-4)

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **320**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Mazandaran university of medical university

Street address

Juybar Avenue

City

Sari

Postal code**Approval date**

2014-01-14, 1392/10/24

Ethics committee reference number

747

Health conditions studied**1****Description of health condition studied**

Contrast-Induced Nephropathy

ICD-10 code

N 14.1

ICD-10 code description

Nephropathy induced by other drugs, medicaments and biological substances

Primary outcomes**1****Description**

Nephropathy

Timepoint

One day befor and 3 to 5 days after angiography

Method of measurement

Measuring Creatinin and GFR with Cockcroft-Gault formula

Secondary outcomes

empty

Intervention groups**1****Description**

In patient group,all patients will receive 3 gr chewing acid ascorbic (12 *250 mg powder) 2 hours befor angiography and then they will receive 2 gr in the first night and the next morning.

Category

Prevention

2**Description**

In control group, patients will receive placebo.

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Mazandaran Heart Center

Full name of responsible person

Nazanin Hanafi

Street address

Mazandaran Heart Center, Artesh BLVD, Imam Hossein square

City

Sari

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research of Mazandaran University of Medical Sciences

Full name of responsible person

Ahmad Ali Enayati

Street address

Deputy of research , Moallem Square

City
Sari

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 of Mazandaran 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
Mazandaran University of Medical Sciences

Full name of responsible person
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Position
Assistant professor of Cardiology

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