

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Ascorbic acid in preventing contrast-induced nephropathy in patients undergoing angiography : Double blind Random clinical trial

Protocol summary

Study aim

Evaluation of vitamin C in contrast induced nephropathy

Design

A randomized, blinded, clinical trial with a parallel group design of 100 patients under angiography between Jun 2017 and November 2017.

Settings and conduct

This study will be done in Mazandaran Heart center and practitioner and analyzer is blind .

Participants/Inclusion and exclusion criteria

End stage renal disease History of contrast use in past 3 days or 1 week after starting study Nephrotoxic drug use Vitamin C use in past 7 days

Intervention groups

In Intervention group, 3 gram before and 2 gram after angiography then 1 gram daily for 5 days will be prescribed. Every patients will take 10 gram vitamin C totally. In control group, Placebo (Same shape, odor and appearance) instead of vitamin C will be prescribed.

Main outcome variables

Nephropathy

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151109024975N7**

Registration date: **2018-07-05, 1397/04/14**

Registration timing: **registered_while_recruiting**

Last update: **2018-07-05, 1397/04/14**

Update count: **0**

Registration date

2018-07-05, 1397/04/14

Registrant information

Name

Gohar Eslami

Name of organization / entity

Mazandaran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3354 3695

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g.eslami@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-20, 1397/03/30

Expected recruitment end date

2018-12-21, 1397/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Ascorbic acid in preventing contrast-induced nephropathy in patients undergoing angiography : Double blind Random clinical trial

Public title

Ascorbic acid in contrast-induced nephropathy

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

patients undergoing angiography and contrast media Contrast nephropathy score above 5 Age between 18-85

Exclusion criteria:

End stage Renal disease patients Contrast usage 1 week before and 72 hours after study Coadministration of nephrotoxic drug Vitamin C usage during last 1 week

Age

From **18 years** old to **85 years** old

Gender

Both

Phase

3

Groups that have been masked

- Investigator
- Outcome assessor
- Data analyser

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple Randomization

Blinding (investigator's opinion)

Double blinded

Blinding description

double blind (practitioner, Analyzer)

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 Sciences

Street address

Saadi Ave, farhang St

City

Sari

Province

Mazandaran

Postal code

4818844765

Approval date

2017-03-10, 1395/12/20

Ethics committee reference number

IR.MAZUMS.REC.95.2554

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

Acute coronary syndrome

ICD-10 code

I24.0

ICD-10 code description

Acute coronary thrombosis not resulting in myocardial infarction

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

Nephropathy

Timepoint

5 days

Method of measurement

creatine

Secondary outcomes**1****Description**

نفریاتی

Timepoint

1 week

Method of measurement

creatine

2**Description**

dialysis

Timepoint

10 days

Method of measurement

Creatinin

3**Description**

mortality

Timepoint

2 weeks

Method of measurement

patients follow up

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

Intervention group: 3 grams of oral vitamin C (Dr Abidi Manufacturing) before angiography and 2 grams afterwards, and then daily for 1 gram during 5 days. Each patient receive 10 grams of ascorbic acid in total.

Category

Treatment - Drugs

2**Description**

Control group: 3 grams of Placebo (Same as vitamin C appearance) before angiography and 2 grams afterwards, and then daily for 1 gram during 5 days.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Fatemeh-zahra hospital Mazandaran University of
Medical Sciences

Full name of responsible person

Gohar Eslami

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical sciences

Full name of responsible person

Research committee Mazandaran University of Medical
sciences

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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

Mazandaran 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

Mazandaran University of Medical Sciences

Full name of responsible person

Gohar Eslami

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Assistance of professor of clinical pharmacy

Full name of responsible person

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Position

Faculty of Pharmacy, Mazandaran University of
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Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to
make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to
make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to
make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable