

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

31 Jul 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

##### Email address

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**

creatinine

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

نفریاتی

**Timepoint**

1 week

**Method of measurement**

creatinine

**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

#### Street address

Center of the heart of Mazandaran, Artesh Blvd

#### City

Sari

#### Province

Mazandaran

#### Postal code

48157-33971

#### Phone

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#### Email

Dr.gohar.eslami@gmail.com

## 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

#### Street address

Moalem Sq, Sari

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#### Province

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#### Phone

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Dr.gohar.eslami@gmail.com

#### 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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Saadi, Farhang St

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#### Email

Dr.gohar.eslami@gmail.com

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Asistance of professor of clinical pharmacy

#### Full name of responsible person

Gohar Eslami

#### Position

Faculty of Pharmacy, Mazandaran University of  
Medical Sciences

#### Latest degree

Ph.D.

#### Other areas of specialty/work

Medical Pharmacy

#### Street address

Faculty of Pharmacy, Payambar Azam Complex, 18  
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## Person responsible for updating data

### Contact

**Name of organization / entity**

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Asistance of Professor Clinical Pharmacy

**Latest degree**

Ph.D.

**Other areas of specialty/work**

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**Web page address**

## 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