Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the effectiveness of curcumin in the prevention of contrast induced nephropathy in following coronary Angiography: A randomized controlled Trial

Protocol summary

Study aim
Evaluation of effectiveness of curcumin in preventing nephropathy caused by contrast in coronary angiography

Design
Double-blind, randomized, placebo-controlled clinical

Settings and conduct
This study is conducted in the cardiac angiography department of Afshar Hospital in Yazd. 60 non-emergency patients who undergo coronary angioplasty, were randomly selected in two groups of 30 people, treated and They are controlled. Both groups will receive the original treatment needed. The pills of both groups (curcumin and placebo) are similar in appearance, and the research student and the patient are not aware of the drug content. Patients are receive placebo or curcuma tablets twelve hours before surgery.

Participants/Inclusion and exclusion criteria
Age 18 and above .admitted to Afshar Hospital in Yazd who is undergoing coronary angioplasty as a non-emergency. Not receiving nephrotoxic drugs Not taking medicine containing curcumin in the last month There is no history of allergic reaction following the consumption of oral curcumin. Tolerating the use of oral medications Hospitalization in the cardiac intensive care unit for 2 days Informed consent of the patient himself or his legal guardian, Non-entry criteria Pregnant or lactating mothers Allergy to curcumin

Intervention groups
Patients are selected in a random permutation case to receive placebo or curcuma tablets twelve hours before surgery. The curcumin tablet used is from Dineh company with the brand name Curcuma, each tablet contains 450 mg of turmeric rhizome powder and 50 mg of turmeric extract. Daru Nama is made by the pharmaceutical laboratory of Shahid Sadoughi Faculty of Pharmacy and it is similar to curcuma drug in terms of shape, size and color.

Main outcome variables
Prevention of contrast- induced nephropathy in coronary angiography

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20190911044744N4**
Registration date: **2023-12-11, 1402/09/20**
Registration timing: **registered_while_recruiting**

Last update: **2023-12-11, 1402/09/20**
Update count: **0**

Registration date
2023-12-11, 1402/09/20

Registrant information

Name
Ehsan Mirzaei

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 35 1820 5885

Email address
ehsan.mirzaei.1369@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2023-12-11, 1402/09/20

Expected recruitment end date
2024-01-10, 1402/10/20

Actual recruitment start date
empty

Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation of the effectiveness of curcumin in the prevention of contrast induced nephropathy in following coronary Angiography: A randomized controlled Trial

Public title
Evaluation of the effectiveness of curcumin in the prevention of contrast induced nephropathy in following coronary Angiography
Purpose
Health service research
Inclusion/Exclusion criteria
Inclusion criteria:
Age 18 years and older Hospitalized in Afshar Yazd Hospital, who is undergoing coronary angioplasty as a non-emergency. not receiving nephrotoxic drugs. not taking curcumin containing drugs in the past one month and no history of allergic reaction after taking oral curcumin Hospitalization in the cardiac intensive care unit for 2 days Informed consent of the patient himself or his legal guar Informed consent of the patient himself or his legal guardian.
Exclusion criteria:
Pregnant or lactating women Allergy to curcumin Receiving nephrotoxic drugs
Age
From **18 years** old
Gender
Both

Phase
3
Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Patients are divided into groups of 30 people and using statistical software;30 people out of 60 patients are completely randomly placed in the treatment group and 30 people in the placebo group. Randomization unit: individual Randomization tool: statistical software
Blinding (investigator's opinion)
Double blinded
Blinding description
In this study, the participants, the main researcher, the doctors and the person in charge of data collection are kept blind. In this way, the list of people who are going to take medicine or placebo will be provided to the head of the surgery department with a number.
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Yazd University of Medical Sciences
Street address
Faculty of Pharmacy,Yazd, Shohada gomnam St., Alam Square
City
Yazd
Province
Yazd
Postal code
8915173149
Approval date
2023-10-08, 1402/07/16
Ethics committee reference number
IR.SSU.MEDICINE.REC.1402.178

Health conditions studied

1

Description of health condition studied
Contrast induced nephropathy in following coronary angiography
ICD-10 code
N04
ICD-10 code description
Nephrotic syndrome

Primary outcomes

1

Description
Contrast -induced nephropathy in coronary angiography
Timepoint
0-48 hours after surgery
Method of measurement
Blood test

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: recipients of curcuma tablets from

Dineh company receive tablet orally 12 hours before coronary angiography to reduce nephrotoxicity of the contrast material and control renal parameters.

Category

Treatment - Drugs

2

Description

Control group: recipients of a placebo prepared in the pharmacy laboratory of Yazd Faculty of Pharmacy in the same size and color as curcuma tablets 12 hours before coronary angiography, receive the tablet orally to reduce the nephrotoxicity of contrast material and control renal parameters.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Afshar Hospital

Full name of responsible person

Ehsan Mirzaei

Street address

Yazd-Jomhouri blvd

City

Yazd

Province

Yazd

Postal code

۸۹۱۷۹۴۵۵۵۶

Phone

+98 35 3525 5011

Email

Ehsan.Mirzaei.1369@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Farimah MoshkaniFarahani

Street address

Yazd Faculty of Pharmacy, Shohada Gomnam St., Alam Square

City

Yazd

Province

Yazd

Postal code

8915173149

Phone

+98 35 3626 0001

Email

Farimah.Moshkani@gmail.com

Grant name

Grant code / Reference number

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

No

Title of funding source

Yazd University of Medical Sciences

Proportion provided by this source

1

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

Yazd University of Medical Sciences

Full name of responsible person

Ehsan Mirzaei

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Yazd Faculty of Pharmacy, Shohada Gomnam St., Alam Square

City

Yazd

Province

Yazd

Postal code

8915173149

Phone

+98 35 3820 3419

Email

Ehsan.Mirzaei.1369@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Ehsan Mirzaei

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

Street address

Yazd Faculty of Pharmacy, Shohada Gomnam St., Alam Square
City
Yazd
Province
Yazd
Postal code
8915173149
Phone
+98 35 3820 3419
Email
Ehsano.Mirzaei.1369@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Yazd University of Medical Sciences
Full name of responsible person
Farimah Moshkani Farahani
Position
Student
Latest degree
Medical doctor
Other areas of specialty/work
Medical Pharmacy
Street address
Yazd Faculty of Pharmacy, Shohada Gomnam St., Alam Square
City
Yazd
Province
Yazd
Postal code
8915173149
Phone
+98 35 3820 3419
Email
Farimah.Moshkani@gmail.com

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
Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available
Analytic Code
Undecided - It is not yet known if there will be a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available