Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The effect of Zingiber officinale Roscoe on reducing ischemia-reperfusion injury in patients undergoing coronary angioplasty

Protocol summary

Study aim
Determining the Effect of Ginger on Reducing Ischemic-Reducing Injury in Patients with Coronary Angioplasty

Design
Randomized double-blind clinical trial

Settings and conduct
This is a randomized controlled clinical trial that will be carried out in double blind (cardiologist , as well as patients who are not aware of the groups status). . First, the goals of the study will be explained to the patients, and the informed consent will be taken in writing in patients. Then, the 250 mg Zinatuma capsule intervention group of Isfahan Gol daru Company will be given once a day. to the control group the placebo administrated for 10 days. Angioplasty will be performed according to the routine method. . The balloon is then dipped through a catether and placed exactly in the narrowed area with fluoroscopy, and a balloon with a pressure of ten to fourteen atmospheres is kept, and each time lasted for 30 seconds . To measure the determinants of the effects of the preconditioning phenomenon, the two criteria will be determined and recorded in the following ways. The first clinical index for assessing the results is to measure chest pain by scoring a pain .the other parameter of troponin enzyme, which is measured by the Canadian Ramp Company 24 hours after the angioplasty.

Participants/Inclusion and exclusion criteria
1. Having a stenosis of at least 70% in at least one coronary artery 2. Ginger consumption 6 months before study 3. Sensitivity to ginger and its compounds 4. Chest pain 48 hours ago Angioplasty

Intervention groups
In this study, the Zinotoa capsule and the placebo control group received intervention

Main outcome variables
troponin enzyme

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20180118038426N1**
Registration date: **2018-03-04, 1396/12/13**
Registration timing: **registered_while_recruiting**

Last update: **2018-03-04, 1396/12/13**
Update count: **0**

Registration date
2018-03-04, 1396/12/13

Registrant information

Name
Afshin Nazari

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 66 3222 8901

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nazary257@lums.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2018-02-25, 1396/12/06

Expected recruitment end date
2018-03-16, 1396/12/25

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title

The effect of Zingiber officinale Roscoe on reducing ischemia-reperfusion injury in patients undergoing coronary angioplasty

Public title
Zingiber officinale Roscoe on reducing ischemia-reperfusion injury
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Having a stenosis of at least 70% in at least one coronary artery
Exclusion criteria:
Ginger consumption 6 months before Study-Ginger sensitivity and its compounds-Chest pain 48 hours before Angioplasty
Age
From **20 years** old
Gender
Both

Phase
0
Groups that have been masked

- Participant
- Care provider

Sample size
Target sample size: **36**
Randomization (investigator's opinion)
Randomized
Randomization description
participants in 8 blocks containing 4 participants in the intervention group and 4 participants in the control group are randomly divided.
Blinding (investigator's opinion)
Double blinded
Blinding description
In this double-blind study, patients and researcher are unaware of the grouping patients.
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of lorestan University of Medical Sciences
Street address
moalem ave.khorramabad town
City
khorramabad
Province
Lorestan
Postal code
6963157444
Approval date
2017-05-29, 1396/03/08
Ethics committee reference number
ir.lums.rec.1396.261

Health conditions studied

1

Description of health condition studied
coronary artery disease
ICD-10 code
120-125
ICD-10 code description
120-125

Primary outcomes

1

Description
troponin enzyme
Timepoint
24 hours after angioplasty
Method of measurement
labratory kit

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: In the intervention group, Zinatuma capsule 250 mg is prescribed once a day for 10 days.
Category
Treatment - Drugs

2

Description
Control group: This group is prescribed a placebo capsule for 10 days
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
madani hospital
Full name of responsible person
afshin nazary

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khirabad ave.khorramabad town
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Khoram-Abad University of Medical Sciences
Full name of responsible person
Morvat Kalani
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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
Khoram-Abad 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
Khoram-Abad University of Medical Sciences
Full name of responsible person
afshin nazari
Position
associate professor
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

All original study data is shared

When the data will become available and for how long

All original study data is shared

To whom data/document is available

academic institution

Under which criteria data/document could be used

For use in books and scientific articles

From where data/document is obtainable

Lorestan University of Medical Sciences

What processes are involved for a request to access data/document

with sending Email the study data will be sent within one week

Comments