Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of rose hip alcoholic extract on transthoracic Doppler echocardiography parameters in patients with coronary slow flow

Protocol summary

Study aim

The effect of tablets containing the alcoholic extract of rose hip (one gram daily for two months) on echocardiography parameters of patients with slow coronary artery flow

Design

Double-blinded randomized controlled clinical trial with parallel groups, phase 3 on 30 patients. For randomization, the permutation block method was used using the www.randomization.com website.

Settings and conduct

The study group is outpatients diagnosed with slow coronary artery flow who have completed the inclusion and exclusion criteria of the study and use the drug or placebo for 2 months at home. At the beginning and after 2 months of taking drug or placebo, patients are evaluated in terms of echocardiography parameters in the hospital. Patients and evaluators are blinded to the type of drug and placebo group.

Participants/Inclusion and exclusion criteria

Patients diagnosed with slow flow of coronary arteries but without aneurysms in coronary arteries and without organ dysfunction

Intervention groups

In the treatment group, tablets containing 250 mg of hydroalcoholic extract of the rose hip, 4 times a day for 2 months will be added to the standard treatment regimen of slow coronary artery flow including ACEIS / ARBS, beta-blockers, aspirin and atorvastatin. Placebo tablets will be used in the control group.

Main outcome variables

Transthoracic Doppler Echocardiography parameters including: PDV (peak diastolic velocity); MDV (mean diastolic velocity); PDP (peak diastolic pressure); MDP (mean diastolic pressure) ; Dvti(diastolic time velocity); Dint (diastolic flow interval); VTI (time velocity integral) ; LVEF (left ventricular ejection fraction)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120520009801N8**
Registration date: **2022-07-30, 1401/05/08**
Registration timing: **prospective**

Last update: **2022-07-30, 1401/05/08**
Update count: **0**

Registration date

2022-07-30, 1401/05/08

Registrant information

Name
Amir Hooshang Mohammadpour
Name of organization / entity
Mashhad University of Medical Sciences
Country
Iran (Islamic Republic of)
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+98 51 1882 3255
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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-09-23, 1401/07/01

Expected recruitment end date

2022-12-22, 1401/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
The effect of rose hip alcoholic extract on transthoracic Doppler echocardiography parameters in patients with coronary slow flow

Public title
Effect of rose hip on coronary slow flow
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Diagnosis of slow flow review based on angiography results CTFC (corrected TIMI frame count) > 27 Obtaining the consent of the patient or the patient's companion
Exclusion criteria:
Aneurysm in the coronary arteries Patients with hyperhomocysteinemia Patients with myocarditis Patients with pericarditis Patients with cardiomyopathy The presence of ectasia in epicardial coronary vessels Not having a suitable view for electrocardiography Pregnancy or lactation Kidney or liver failure
Age
No age limit
Gender
Both

Phase
3
Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
The method used to generate a random allocation sequence with a guarantee of equal allocation of individuals to the two groups is a permutation block created using the website www.randomization.com. With the explanation that each block has 4 members and the shape of the blocks is as follows: [AABB], [ABAB], [ABBA], [BABA], [BBAA], [BAAB] Code A belongs to the intervention group and code B belongs to the control group. Therefore, 18 quadruple blocks were randomly generated by the site and patients were assigned to two study groups based on the sequence obtained from the above blocks.
Blinding (investigator's opinion)
Double blinded
Blinding description
The allocation concealment method is using opaque sealed envelopes with random sequences obtained from the random allocation step. The codes are given to the researcher present in the hospital. This researcher is fully aware of the type of codes. Medications are also given to him on the basis of the number (A or B) and he is fully aware of which drug or placebo. At the end of study, the evaluator (physician) who does not know which drug the patient has received and is aware only of the assigned code, performs the relevant evaluations and after registration, the results are given to the person who performs data analysis.
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Mashhad University of Medical Sciences
Street address
Vice Chancellor for Research and Technology, Third floor of Ghoreshi building, Next to Hoveyzeh Cinema, Daneshgah Street, Mashhad
City
Mashhad
Province
Razavi Khorasan
Postal code
9138813944
Approval date
2022-06-11, 1401/03/21
Ethics committee reference number
IR.MUMS.REC.1401.125

Health conditions studied

1

Description of health condition studied
Coronary artery slow flow syndrome
ICD-10 code
I20.8
ICD-10 code description
Other forms of angina pectoris

Primary outcomes

1

Description
PDV (peak diastolic velocity)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

2

Description
MDV (mean diastolic velocity)
Timepoint

at baseline and two months after intervention
Method of measurement
Echocardiography

3

Description
PDP (peak diastolic pressure)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

4

Description
MDP (mean diastolic pressure)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

5

Description
Dvti(diastolic time velocity)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

6

Description
Dint (diastolic flow interval)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

7

Description
VTI (time velocity integral)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

8

Description
LVEF (left ventricular ejection fraction)
Timepoint
at baseline and two months after intervention
Method of measurement
Echocardiography

Secondary outcomes

1

Description
Adverse reactions of rose hip tablet
Timepoint
Two months after intervention
Method of measurement
Questionnaire

Intervention groups

1

Description
Intervention group: tablets containing 250 mg of hydroalcoholic extract of rose hip prepared in the pharmacognosy and pharmaceutical laboratory of Mashhad Faculty of Pharmacy, 4 tablets daily oral for 2 months
Category
Treatment - Drugs

2

Description
Control group: Placebo tablets prepared in the pharmaceutical laboratory of the Mashhad Faculty of Pharmacy, 4 tablets daily oral for 2 months
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Ghaem Hospital
Full name of responsible person
Mostafa Dastani
Street address
Ahmedabad Street
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Majid Ghayour Mobarhan
Street address

Vice Chancellor for Research and Technology, third floor of Ghoreshi building, next to Hoveyzeh Cinema, University Street, Mashhad

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GhayourM@mums.ac.ir

Grant name

Grant code / Reference number

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

Title of funding source
Mashhad 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
Mashhad University of Medical Sciences

Full name of responsible person
Amir Hooshang Mohammadpour

Position
Professor

Latest degree
Ph.D.

Other areas of specialty/work
Medical Pharmacy

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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
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

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

All data is potentially shareable after unidentifiable individuals

When the data will become available and for how long

starting 6 months after publication

To whom data/document is available

People working in academic institutions

Under which criteria data/document could be used

Mention the source

From where data/document is obtainable

Amir Hoshang Mohammadpour Phone number: 0098 9153162909 Email: MohamadpoorAH@mums.ac.ir

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

Reply to email within a maximum of one week

Comments