Clinical Trial Protocol
Iranian Registry of Clinical Trials

28 May 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)
Phone
+98 51 1882 3255
Email address
mohamadpoorah@mums.ac.ir

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

City

Mashhad

Province

Razavi Khorasan

Postal code

9176699199

Phone

+98 51 3840 0001

Email

b.ghaem@mums.ac.ir

Web page address

https://quaem.mums.ac.ir/

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

City
Mashhad

Province
Razavi Khorasan

Postal code
9138813944

Phone
+98 51 3841 1538

Email
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

Street address
School of Pharmacy, Mashhad University of Medical Sciences

City
Mashhad

Province
Razavi Khorasan

Postal code
6519472972

Phone
+98 51 1882 3255

Email
mohamadpoorah@mums.ac.ir

Person responsible for scientific 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

Street address
School of Pharmacy, Mashhad University of Medical Sciences

City
Mashhad

Province
Razavi Khorasan

Postal code
6519472972

Phone
+98 51 1882 3255

Email
mohamadpoorah@mums.ac.ir

Person responsible for updating data

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

Street address
School of Pharmacy, Mashhad University of Medical Sciences

City
Mashhad

Province
Razavi Khorasan

Postal code
6519472972

Phone
+98 51 1882 3255

Email
mohamadpoorah@mums.ac.ir

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