

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

The effect of magnesium treatment in reducing the symptoms of patients with mitral valve prolapse

Protocol summary

Study aim

The effect of magnesium in reducing the symptoms of patients with mitral valve prolapse

Design

The study was designed as a clinical trial with a sample size of 30 people for comparison before and after in participants of this study.

Settings and conduct

This study will be performed in Shahid Rajaei Hospital on people with mitral valve prolapse who are eligible for the study. Patients who gave informed consent to participate in the plan will receive 250 mg of magnesium gluconate twice a day for 4 weeks. The final outcomes of the study before and after the intervention will be compared

Participants/Inclusion and exclusion criteria

Exclusion criteria: Previous history of heart disease; Lack of access to tests; Lack of ECG interpretation
Inclusion criteria: Patients with mitral valve prolapse

Intervention groups

Intervention group: 250 mg magnesium gluconate tablets twice a day for four weeks

Main outcome variables

Heart palpitation, chest pain and echocardiographic changes

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210403050827N1**

Registration date: **2021-04-14, 1400/01/25**

Registration timing: **prospective**

Last update: **2021-04-14, 1400/01/25**

Update count: **0**

Registration date

2021-04-14, 1400/01/25

Registrant information

Name

Fariba Rajabi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 26 3457 0030

Email address

f.rajabi@abzums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-19, 1400/01/30

Expected recruitment end date

2021-07-21, 1400/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of magnesium treatment in reducing the symptoms of patients with mitral valve prolapse

Public title

The effect of magnesium treatment on the symptoms of mitral valve prolapse

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with mitral valve prolapse

Exclusion criteria:

Previous history of heart disease
Lack of access to tests

Lack of ECG interpretation

Age

No age limit
Gender
Both
Phase
3
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Alborz University of Medical Sciences

Street address

Ethics committee unit; Vice Chancellor for Research; No.20; Saffarian alley; 45 Metri Golshahr street

City

Karaj

Province

Alborz

Postal code

3149779453

Approval date

2021-02-06, 1399/11/18

Ethics committee reference number

IR.ABZUMS.REC.1399.283

Health conditions studied

1

Description of health condition studied

Mitral valve prolapse

ICD-10 code

I34.1

ICD-10 code description

Nonrheumatic mitral (valve) prolapse

Primary outcomes

1

Description

Heart palpitation

Timepoint

Before and after intervention

Method of measurement

Questionnaire

2

Description

Echocardiographic changes

Timepoint

Before and after intervention

Method of measurement

Echocardiography

3

Description

Chest pain

Timepoint

Before and after intervention

Method of measurement

Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Take 250 mg magnesium gluconate (Karan, Iran) tablets twice a day for four weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Kamali hospital

Full name of responsible person

Fariba Rajabi

Street address

Shahid Rajaei Hospital , Ghalam St, Beheshti Ave, Karaj, Iran

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3197635141

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Karaj University of Medical Sciences

Full name of responsible person

Mohammad Nourisepehr

Street address

Vice Chancellor for Research; No.20; Saffarian alley;
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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

Karaj 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**

Karaj University of Medical Sciences

Full name of responsible person

Fariba Rajabi

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Cardiology

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Fax**Email**

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

Undecided - It is not yet known if there will be 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