

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of curcumin effect on plaque rupturing serum biomarkers and atrial and ventricular arrhythmia in unstable angina patients.

Protocol summary

Summary

The aim of this study is evaluation of Curcumin effect on cardiac arrhythmia in unstable angina patients. 40 unstable angina patients who fulfilled inclusion and exclusion criteria were randomized in two groups who received Curcumin or placebo in addition conventional drug therapy for treatment of unstable angina.

Evaluations are carried out by a physician who are not aware about patients' medication. Blood sampling are taken on days 1, 5, 10, 15 after intervention.

Echocardiography are performed on days 1, 30 and Cardiac monitoring are taken during hospitalization. The effect of Curcumin on atrial and ventricular cardiac arrhythmia and the serum biomarker of atherosclerotic plaque rupturing are compared in these two groups of patients.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013102315122N1**

Registration date: **2014-01-17, 1392/10/27**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-01-17, 1392/10/27

Registrant information

Name

Masoumeh Salari

Name of organization / entity

Mashhad University Of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Mashad University of Medical Sciences, Farmaceutical research center

Expected recruitment start date

2013-11-05, 1392/08/14

Expected recruitment end date

2015-12-30, 1394/10/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of curcumin effect on plaque rupturing serum biomarkers and atrial and ventricular arrhythmia in unstable angina patients.

Public title

Preventive effect of curcumin in cardiac arrhythmia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Age>18; diagnosis of unstable angina with clinic and para clinic finding. Exclusion criteria: Renal and hepatic failure; infectious diseases; NSIADS and immunosuppression drugs consumption; curcumin sensitivity; pregnancy and feeding; malignancy; chronic inflammatory disease; cardiac arrhythmia; malabsorption syndromes

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 40

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mashad University Of Medical Sciences

Street address

Goreyshi building, Daneshgah street, Mashad
University Of Medical Sciences

City

Mashad

Postal code

Approval date

2013-05-04, 1392/02/14

Ethics committee reference number

910999ک

Health conditions studied

1

Description of health condition studied

I20

ICD-10 code

I20.0

ICD-10 code description

Preinfarction syndrome

Primary outcomes

1

Description

frequency of atrial and ventricular arrhythmia

Timepoint

Between first day to 30th day post unstable angina

Method of measurement

ECG-heart exam

Secondary outcomes

1

Description

changes in myeloperoxidase serum concentration

Timepoint

in day 0,5,10,15 post unstable angina

Method of measurement

laboratory

2

Description

changes in matrix metaloproteinase serum concentration

Timepoint

in day 0,5,10,15 post unstable angina

Method of measurement

laboratory

3

Description

Changes in IL-18 serum concentration

Timepoint

in day 0,5,10,15 post unstable angina

Method of measurement

laboratory

Intervention groups

1

Description

Control: Tab Placebo four times per day for two weeks
from admission day

Category

Treatment - Drugs

2

Description

Intervention: Tab Curcumin 500 mg four times per day
for two weeks from admission date

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghaem hospital

Full name of responsible person

Masoumeh Salari

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Cardiac department, Ghaem hospital, Ahmadabad
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City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashad University of Medical Sciences,
Pharmaceutical Research Center

Full name of responsible person

Dr. Mohsen Tafaghodi

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Ghoreishi Building, Danseshgah Street, Research Vice
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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

Mashad University of Medical Sciences, Pharmaceutical
Research Center

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code
empty

Data Dictionary
empty