Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the effect of curcumin on serum levels of inflammatory markers in patients with acute myocardial infarction

Protocol summary

Summary

The aim of this study is evaluation of effect of Curcumin on serum levels of inflammatory markers in patients with acute myocardial infarction. Study is designed as Randomized, double-blind trial. Examples include patients referred to 22 Bahaman Hospital in Neyshabur city, disease has been confirmed by clinical signs, electrocardiogram and serum markers. 80 patients(18-75 years) are selected and will be divided into two groups of intervention with curcumin and placebo. The main criteria inclusion are included: Diagnosis of Acute MI and exclusion criteria are: diabetes, kidney failure and liver failure. Patients were randomly divided into two equal groups. intervention are performed for 2 months, treated with a single dose of 500 mg per day curcumin or placebo. At the beginning and end of the study, blood levels of inflammatory markers will be evaluated.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017010922381N3**
Registration date: **2017-02-08, 1395/11/20**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2017-02-08, 1395/11/20

Registrant information

Name

Azam Rezaei Farimani

Name of organization / entity

Neyshabur University of Medical Sciences

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Iran (Islamic Republic of)

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+98 51 4334 4011

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Recruitment status

Recruitment complete

Funding source

Neyshabur University of Medical Sciences in collaboration with Mashhad, Razavi Hospital

Expected recruitment start date

2017-02-18, 1395/11/30

Expected recruitment end date

2018-06-21, 1397/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of curcumin on serum levels of inflammatory markers in patients with acute myocardial infarction

Public title

The effect of curcumin in the treatment of patients with acute myocardial infarction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: diagnosed Acute MI based on clinical signs, electrocardiogram and serum markers; older than 18 years; maximum age of 75 years; written consent form. Exclusion criteria: Diabetes; renal failure; liver failure; immunosuppressive drugs; pentoxifylline; cilostazol consumption; inflammatory diseases; sensitivity of curcumin (turmeric); leukocytosis with a left Schiff; the use of glucosamine. Barberry juice consumption; malabsorption disorders; history of clotting

problems; history of consumption anticoagulant therapy; patients with surgical indications.

Age
From **18 years** old to **75 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **80**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Neyshabour University of Medical Science

Street address
Office of Research Affairs, Razi St, ShahidJafari St, Imam Khomeini Square, Neyshabur, Iran

City
Neyshabour

Postal code

Approval date
2016-09-22, 1395/07/01

Ethics committee reference number
IR.NUMS.REC.1394.15

Health conditions studied

1

Description of health condition studied
Acute Myocardial Infarction

ICD-10 code
121

ICD-10 code description
myocardial infarction specified as acute or with a stated duration of 4 weeks (28 days) or less from onset

Primary outcomes

1

Description
MCP-1

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

2

Description
IL-2

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

3

Description
IL-6

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

4

Description
IL-8

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

5

Description
IL-1α

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

6

Description
IL-1β

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

7

Description
VEGF

Timepoint
Before intervention and two months after intervention

Method of measurement
pg / ml using blood tests

8

Description
TNFα
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

9

Description
EGF
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

10

Description
INF-γ
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

11

Description
IL-4
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

12

Description
IL-10
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

13

Description
Hs-CRP
Timepoint
Before intervention and two months after intervention
Method of measurement
Mg / dl using blood tests

14

Description
homosysteine
Timepoint
Before intervention and two months after intervention
Method of measurement
pg / ml using blood tests

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Curcumin, 500 mg capsules، single dose per day for 2 months, the chemical formula: C21H2O6
Category
Treatment - Drugs

2

Description
Control group: placebo, starch, 500 mg capsules، single dose per day for 2 months
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
22 Bahman Hospital
Full name of responsible person
Dr. Samane Tabaee
Street address
22 Bahman Hospital, Imam Khomeini Square, Neyshabur, Iran
City
Neyshabour

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Neyshabur University of Medical Sciences
Full name of responsible person
Dr.Aasalt Borji
Street address
Office of Research Affairs, Razi St, ShahidJafari St, Imam Khomeini Square, Neyshabur, Iran
City
Neyshabour
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research, Neyshabur University of Medical Sciences
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

Contact

Name of organization / entity

Neyshabur University of Medical Sciences

Full name of responsible person

Samaneh Tabaee

Position

Clinicians / faculty member

Other areas of specialty/work

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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