

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 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

Country

Iran (Islamic Republic of)

Phone

+98 51 4334 4011

Email address

rezaia1@nums.ac.ir

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

I21

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-1 α

Timepoint

Before intervention and two months after intervention

Method of measurement

pg / ml using blood tests

6

Description

IL-1 β

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

TNF α

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: C₂₁H₂₀O₆

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 Tabaei

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

Street address

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

City

Neyshabur

Postal code

Phone

+98 514334401112

Fax

Email

tabaees79@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Neyshabur University of Medical Sciences

Full name of responsible person

Dr. Seyed Reza Mirhafez

Position

Assistant Professor / faculty member

Other areas of specialty/work

Street address

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

City

Neyshabur

Postal code

Phone

+98 51 4225 4177

Fax

Email

mirhafezr@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Neyshabur University Of Medical Sciences

Full name of responsible person

Azam Rezaei Farimani

Position

Assistant Professor / faculty member

Other areas of specialty/work

Street address

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

City

Neyshabur

Postal code

Phone

+51 42 254177

Fax

Email

azam_rezaei1@yahoo.com

Web page address

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