

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effects of Turmeric (Curcumin) on inflammatory factors affecting Remodeling after acute ST-segment elevation myocardial infarction

Protocol summary

Summary

Objective: The aim of study is evaluation of effect of Turmeric (Curcumin) on inflammatory factors affecting Remodeling after acute myocardial infarction (ST-segment elevation myocardial infarction). Participants: The study population is patients with STEMI. Including criteria: All patients with acute myocardial infarction with ST-segment elevation myocardial infarction are included. Excluding criteria: Exclusion criteria are Acute or chronic infection, co-excitng autoimmune diseases such as connective tissue disorders, malignancy, surgery during one month ago, treatment with corticosteroids, immunosuppressants, thiazolidinediones, or NSAIDs, chronic liver disease, chronic renal disease. Interventions: All patients divide to two groups: intervention and control. The sample size in each group is 30 patients. The intervention group will be given 750 mg curcumin orally for 4 weeks and the control group will receive placebo for the same period. Main outcome measures: At time of administration and the end of 4 weeks, cardiac biomarkers (CKMB, CTnT), serum levels of inflammatory markers (NT Pro-BNP, CRP, TNF α , IL1, IL6) will be measured. Also, patients will be evaluated for drug complications.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012112011235N1**
Registration date: **2013-01-08, 1391/10/19**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2013-01-08, 1391/10/19

Registrant information

Name

Mohammad Javd Alemzadeh-Ansari

Name of organization / entity

Tehran Heart Center, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 916 617 4016

Email address

aansari@razi.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Baghiatallah Medical Sciences University

Expected recruitment start date

2013-01-09, 1391/10/20

Expected recruitment end date

2015-01-10, 1393/10/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of Turmeric (Curcumin) on inflammatory factors affecting Remodeling after acute ST-segment elevation myocardial infarction

Public title

Effects of Turmeric on inflammatory factors affecting Remodeling after acute myocardial infarction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients with ST-segment elevation myocardial infarction exclusion criteria: Acute or chronic

infection; co-exciting autoimmune diseases such as connective tissue disorders; malignancy; surgery during one month ago; treatment with corticosteroids, immunosuppressants, thiazolidinediones, or NSAIDs; chronic liver disease; chronic renal disease (serum creatinine more than 3 mg/dl or glomerular filtration rate less than ml/min)

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Baqiyatallah University of Medical sciences

Street address

Mirdamad st, Tehran

City

Tehran

Postal code

Approval date

2012-10-31, 1391/08/10

Ethics committee reference number

Ethics committee of Baqiyatallah University of Medical sciences (meeting no: 31)

Health conditions studied

1

Description of health condition studied

Acute transmural myocardial infarction of unspecified site

ICD-10 code

I21.3

ICD-10 code description

Transmural myocardial infarction NOS

Primary outcomes

1

Description

CTnT

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/L)

2

Description

CKMB

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

3

Description

Interleukin 1

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

4

Description

Interleukin 6

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

5

Description

Tumor necrosis factor-alpha

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

6

Description

N-terminal prohormone of brain natriuretic peptide

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

7

Description

C-reactive protein

Timepoint

before intervention, 8 weeks later

Method of measurement

Laboratory Test (ng/ml)

Secondary outcomes

empty

Intervention groups**1****Description**

Capsule placebo three times daily for 4 weeks

Category

Treatment - Drugs

2**Description**

Curumin 250 mg orally three times daily (750 mg) for 4 weeks

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Tehran Heart Center Hospital

Full name of responsible person

Mohammad Javad Alemzadeh-Ansari

Street address

North Kargar-Ave

City

Tehran

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research, Baqiyatallah University of Medical sciences

Full name of responsible person

Motreza Izadi

Street address

Mirdamad st, Tehran

City

Tehran

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, Baqiyatallah 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**

Tehran Heart Center Hospital

Full name of responsible person

Mohammad Javad Alemzadeh-Ansari

Position

Resident of Cardiology

Other areas of specialty/work**Street address**

North Kargar-Ave

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Health Research Center , Baqiyatallah University of Medical Sciences

Full name of responsible person

Nematollah Jonaidi

Position

Associate Professor

Other areas of specialty/work**Street address**

Molla Sadra ave.

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Person responsible for updating data

Contact

Name of organization / entity

Tehran Heart Center Hospital

Full name of responsible person

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Position

Resident of Cardiology

Other areas of specialty/work**Street address**

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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