Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 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-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. Intreventions: 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, TNFα, 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
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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
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Associate Professor
Other areas of specialty/work
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Molla Sadra ave.
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Person responsible for updating data

Contact

Name of organization / entity
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Position
Resident of Cardiology

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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