

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of Curcumin effect on plaque formation and plaque rupturing biomarkers in coronary artery disease

Protocol summary

Summary

Randomized double blind placebo control trial; phase 2. Inclusion criteria: age more than 18 and diagnosis of coronary artery disease according to angiography results. Exclusion criteria: severe renal or hepatic failure; having infectious disease; use of immunosuppressive or anti-inflammatory drugs; curcumin sensitivity; pregnancy and lactation. The main goal of study is the evaluation of Curcumin effect on plaque formation and plaque rupturing biomarkers in coronary artery disease. 40 patients with the diagnosis of coronary artery diseases according to angiography results will be selected. These patients with completion of inclusion and exclusion criteria will be randomly included in one of two groups (curcumin or placebo) and will be treated with Curcumin or placebo in addition to typical therapeutic regimen. Blood samples will be prepared before and 2 months after the beginning of study and then evaluated for the effect on atherosclerosis plaque formation and plaque instability. Biomarkers including: MCP-1, VCAM-1, MMP-9, IL-18, CD-40L, MPO.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112028276N1**

Registration date: **2011-12-08, 1390/09/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-12-08, 1390/09/17

Registrant information

Name

Parastoo Mirzabeygi

Name of organization / entity

Tehran university of medical sciences

Country

Iran (Islamic Republic of)

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+98 21 6695 4709

Email address

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2011-12-08, 1390/09/17

Expected recruitment end date

2012-12-20, 1391/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of Curcumin effect on plaque formation and plaque rupturing biomarkers in coronary artery disease

Public title

Curcumin effect on atherosclerosis plaque in coronary artery disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age more than 18 and diagnosis of coronary artery disease according to angiography results
Exclusion criteria: severe renal or hepatic failure; having infectious disease; use of immunosuppressive or anti-inflammatory drugs; curcumin sensitivity; pregnancy and lactation.

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Pharmaceutical sciences research center Tehran
University of Medical Sciences

Street address

School of pharmacy, Tehran university of medical
sciences, Enghelab ave.

City

Tehran

Postal code

Approval date

2011-10-25, 1390/08/03

Ethics committee reference number

90-8-3:0-1

Health conditions studied

1

Description of health condition studied

Coronary artery disease

ICD-10 code

I25.1

ICD-10 code description

Atherosclerotic heart disease

Primary outcomes

1

Description

IL-18

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

2

Description

CD40L

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

3

Description

MMP-9

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

4

Description

MPO

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

5

Description

VCAM-1

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

6

Description

MCP-1

Timepoint

Before and 2 month after begining of study

Method of measurement

Kit

Secondary outcomes

empty

Intervention groups

1

Description

Curcumin, Capsule 500 mg,1g/twice daily

Category

Treatment - Drugs

2

Description

Placebo, Capsule 500 mg, 1g/twice daily

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Tehran Heart Center

Full name of responsible person

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Vice-Chancellor for Research

Street address

Sixth floor, Tehran University of Medical Sciences,
Ghods street, Keshavarz blv.

City

Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Tehran 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 University of Medical Sciences

Full name of responsible person

Dr.Mohammad reza Javadi

Position

Assistance professor

Other areas of specialty/work

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Clinical pharmacy department, School of pharmacy,
Tehran University of Medical Sciences

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Person responsible for scientific inquiries

Contact

Name of organization / entity

School of Pharmacy, Mashhad University of Medical
Sciences

Full name of responsible person

Dr. Amir Hooshang Mohammadpour

Position

Associate Professor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Parastoo Mirzabeygi

Position

Resident of Clinical Pharmacy

Other areas of specialty/work

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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