Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

The effect of curcumin on left ventricle function in patients with end stage renal disease

Protocol summary

Summary

The main objective of this study is to determine the effects of curcumin on left ventricular function in patients undergoing dialysis. The clinical trial will be conducted double-blind, controlled, single centered. Included patients who have chronic kidney failure undergoing dialysis, and the age range of 30-60 years. Patients who are considered outside the age range or known cardiac disease such as CAD or moderate to severe valvular insufficiency (diagnosed by history and noninvasive tests) and informed refusal of consent have excluded. patients will be divided into two groups:case and control. the case group will receive capsule of curcumin 500 mg per 8 hours for six weeks. the control group will receive placebo with the same dose. Before and after six weeks of intervention echocardiography will do and left ventricular ejection fraction that represents left ventricular function and size of the left ventricle will be measured in both groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015011617413N10**
Registration date: **2015-07-12, 1394/04/21**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-07-12, 1394/04/21

Registrant information

Name

Hamidreza Karimi-Sari

Name of organization / entity

Student Research Committee, Baqiyatallah University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Atherosclerosis Research Center of Baqiyatallah University

Expected recruitment start date

2013-04-03, 1392/01/14

Expected recruitment end date

2014-08-23, 1393/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of curcumin on left ventricle function in patients with end stage renal disease

Public title

The effect of curcumin on heart function

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: all patients with chronic renal failure undergoing dialysis in dialysis center of Baqiyatallah Hospital exclusion criteria: history of cardiac diseases (due to history taking and non invasive tests); pregnancy and breastfeeding; informed refusal of consent

Age

From **30 years** old to **60 years** old

Gender

Both

Phase
1-2
Groups that have been masked
No information
Sample size
Target sample size: **35**
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
Baqiyatallah Medical Sciences University Ethic Committee, Atherosclerosis Research Center
Street address
Baqiyatallah Hospital, Molla Sadra Avenue, Tehran
City
Tehran
Postal code
Approval date
2013-02-19, 1391/12/01
Ethics committee reference number
6829

Health conditions studied

1

Description of health condition studied
dialysis
ICD-10 code
N18.5
ICD-10 code description
Chronic kidney disease, stage 5

Primary outcomes

1

Description
Left Ventricle Ejection Fraction
Timepoint
Baseline, six weeks after the beginning of the study
Method of measurement
Echocardiography

2

Description
Left Ventricle Size
Timepoint
Baseline, six weeks after the beginning of the study
Method of measurement
Echocardiography by measuring volume and diametre of left ventricle

Secondary outcomes

1

Description
Hb
Timepoint
before intervention
Method of measurement
blood sampling

2

Description
PTH
Timepoint
before intervention
Method of measurement
blood sampling

Intervention groups

1

Description
The case group will receive capsule of curcumin 500 mg per 8 hours for six weeks.
Category
Treatment - Drugs

2

Description
The control group will receive placebo 500 mg per 8 hours for six weeks.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Baqiyatallah Hospital
Full name of responsible person
Hesam Sadat Hashemi
Street address
Baqiyatallah Hospital, Molla Sadra Avenue, Tehran
City

Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Atherosclerosis Research Center of Baqiyatallah University
Full name of responsible person
Bahram Pishgoo
Street address
Baqiyatallah Hospital, Molla Sadra Avenue, Tehran
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Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Atherosclerosis Research Center of Baqiyatallah University
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
Baqiyatallah University of Medical Sciences
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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