

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 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

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

City

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

Full name of responsible person

Hesam Sadat Hashemi

Position

Medical student

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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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