Clinical Trial Protocol
Iranian Registry of Clinical Trials

29 May 2026

Effect of L-carnitine on oxidative stress in chronic hemodialysis patients

Protocol summary

Summary

This study is a double blind randomized controlled clinical trial and patient and physician placement of people in the placebo group and the control group is recruited patients who are also using randomization divided into two groups that the study on 50 patients with end-stage renal failure undergoing chronic hemodialysis and hemodialysis department in 1394 to visit the Imam and Razi have done so in terms of ethical considerations and informed consent. patients in the study will be randomly by selecting a card encoded within the envelope of the package dimming by patient , will enter the group or control. Then every 3 months for patients treated with L-carnitine 500 mg 2 times a day in the control group received a placebo medication before prescribing levels of Hb, LDL and CRP were measured, then after 3 months of medication the re-measurement of the above mentioned information and statistical analysis performed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015112224645N2**
Registration date: **2015-12-24, 1394/10/03**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-12-24, 1394/10/03

Registrant information

Name

hosein karimpoorian

Name of organization / entity

medical unevirsity of ahvaz

Country

Iran (Islamic Republic of)

Phone

+98 916 603 6991

Email address

karimpoorian.h@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Department of Research and Technology Development, Ahvaz University of Medical Sciences

Expected recruitment start date

2015-06-22, 1394/04/01

Expected recruitment end date

2015-09-23, 1394/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of L-carnitine on oxidative stress in chronic hemodialysis patients

Public title

Effect of L-carnitine on oxidative stress in chronic hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

exclusion criteria: any acute illness of up to one month prior to the study or during the study, is leading to hospitalization2: patients who have known allergies to L-carnitine: cirrhosis of the liver or AST, LT> 45: Patients who are taking vitamin E or C during the study or any known antioxidant. (From 2 weeks before and 2 weeks after starting the drug L-carnitine): previous failure EF <35%. Inclusion criteria: all over 18 years and were undergoing hemodialysis three times a week for at least three months past the initiation of dialysis .

Age

From **18 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **50**

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
Ahvaz University of Medical Sciences, Department of Research and Technology Development

Street address
Ahvaz, City University, University of Ahvaz gondy shapoor

City
Ahvaz

Postal code

Approval date
2015-09-19, 1394/06/28

Ethics committee reference number
IR.AJUMS.REC.1394.356

Health conditions studied

1

Description of health condition studied
Metabolic disorders

ICD-10 code
E88.9

ICD-10 code description
Metabolic disorder, unspecified

Primary outcomes

1

Description
Oxidized LDL

Timepoint
Before the start of the study and 12 weeks later we measured serum levels of LDL

Method of measurement
Instrumental method based on mg / dl

Secondary outcomes

1

Description
MDA

Timepoint
Before the start of the study and 12 weeks later we measured serum levels of MDA

Method of measurement
Instrumental method based on mg /dl

Intervention groups

1

Description
Control: prescription placebo

Category
Placebo

2

Description
intervention: prescription l carnitine

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Dialysis Ahwaz Imam Khomeini Hospital

Full name of responsible person
shokoh shayanpoor

Street address

City
Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Research Vice Chancellar of Ahwaz University of Medical Sciense

Full name of responsible person
Nader Saki

Street address
Ahwaz University of Medical Sciences ، University Town ، Ahwaz

City

Ahwaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Vice Chancellar of Ahwaz University of Medical Sciense

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

Ahwaz University of Medical Sciences

Full name of responsible person

Shokoh shayanpoor

Position

Nephrologist

Other areas of specialty/work

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Contact

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Internal resident

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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