

# 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 hospitalization<sup>2</sup>: 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 Ahvaz 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 Chancellor of Ahvaz University of Medical Science

**Full name of responsible person**

Nader Saki

**Street address**

Ahvaz University of Medical Sciences , University Town , Ahvaz

**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 Chancellor of Ahwaz University of Medical Science  
**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**  
**Street address**  
Ahwaz Imam Khomeini Hospital  
**City**  
Ahvaz  
**Postal code**  
**Phone**  
+98 61 3374 3013  
**Fax**  
**Email**  
dr.shayanpour@yahoo.com  
**Web page address**

## Person responsible for scientific inquiries

**Contact**  
**Name of organization / entity**  
Ahvaz University of Medical Sciences  
**Full name of responsible person**  
shokoh shayanpoor  
**Position**

Nephrologist  
**Other areas of specialty/work**  
**Street address**  
Golestan quarter, Ahwaz Golestan Hospital  
**City**  
Ahvaz  
**Postal code**  
**Phone**  
+98 61 3333 3477  
**Fax**  
**Email**  
dr.shayanpour@yahoo.com  
**Web page address**

## Person responsible for updating data

**Contact**  
**Name of organization / entity**  
Ahvaz University of Medical Sciences  
**Full name of responsible person**  
Hossein Karimpoorian  
**Position**  
Internal resident  
**Other areas of specialty/work**  
**Street address**  
39, Mehr street, Ahvaz  
**City**  
Ahvaz  
**Postal code**  
**Phone**  
00  
**Fax**  
**Email**  
dr\_hossein\_k@yahoo.com  
**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*