

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jun 2026

Effects of alpha lipoic acid supplementation on some antioxidant defence system indices in patients with chronic renal failure undergoing hemodialysis.

Protocol summary

Summary

The main purpose of this study is to evaluate the effects of alpha lipoic acid supplementation on some antioxidant defense system indices in patients with chronic renal failure undergoing hemodialysis. A total of 63 patients with ESRD on HD (hemodialysis) for more than 6 months, receiving 3 times dialysis in a week, will be included in this study. The patients are randomly assigned into treatment group, receiving 600 mg/day of alpha lipoic acid for 8 week, or control group receiving placebo. Fasting blood samples will be taken at the baseline and after 8 weeks. Superoxide dismutase, glutathione peroxidase, catalase, and hemoglobin will be measured by spectrophotometric method in blood samples.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138902041197N4**

Registration date: **2010-11-20, 1389/08/29**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-11-20, 1389/08/29

Registrant information

Name

Reza Mahdavi

Name of organization / entity

Faculty of Health & Nutrition, Tabriz UniV. of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1335 7584

Email address

mahdavir@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Nutritional Research Center, Tabriz University Of Medical Sciences

Expected recruitment start date

2010-01-20, 1388/10/30

Expected recruitment end date

2010-04-19, 1389/01/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of alpha lipoic acid supplementation on some antioxidant defence system indices in patients with chronic renal failure undergoing hemodialysis.

Public title

Effects of alpha lipoic acid supplementation on some antioxidant defence system indices in patients with chronic renal failure undergoing hemodialysis.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: obtaining informed consent, being on HD for more than 6 months receiving 3 dialysis in week
Exclusion criteria: hepatitis and other infections, age less than 20 years, receiving any NSAID and SAID, alpha lipoic acid supplement, vitamin C , vitamin E, valproic acid in the last month, gastrointestinal disorders, candidate for kidney displacement, pregnancy, lactation,

smoking, presence of any side effect

Age

From **20 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **63**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

The Research Ethics Committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences

City

Tabriz

Postal code

Approval date

2009-10-05, 1388/07/13

Ethics committee reference number

886

Health conditions studied

1

Description of health condition studied

Chronic renal failure undergoing hemodialysis

ICD-10 code

N18.0

ICD-10 code description

End-stage renal disease

Primary outcomes

1

Description

SOD

Timepoint

baseline and after 8 weeks

Method of measurement

Specrophotometry

2

Description

GPx

Timepoint

baseline and after 8 weeks

Method of measurement

Specrophotometry

3

Description

catalase

Timepoint

baseline and after 8 weeks

Method of measurement

Specrophotometry

4

Description

Hb

Timepoint

baseline and after 8 weeks

Method of measurement

Specrophotometry

Secondary outcomes

1

Description

health benefits for patients

Timepoint

baseline and weekly monitoring

Method of measurement

observation and evaluation of biochemical parameters

Intervention groups

1

Description

Daily consumption of alpha lipoic acid capsule (600 mg) for 8 weeks

Category

Treatment - Drugs

2

Description

Daily consumption of placebo for 8 weeks

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hemodialysis centers in Tabriz

Full name of responsible person

Street address

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Nutritional Research Center Tabriz University Of Medical Sciences

Full name of responsible person

Ali Reza Ostad Rahimi

Street address

Tabriz University of Medical Sciences

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Nutritional Research Center Tabriz 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

Tabriz University Of Medical Sciences

Full name of responsible person

Reza Mahdavi

Position

Associate professor

Other areas of specialty/work

Street address

Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Phone

+98 41 1335 7580

Fax

Email

mahdavir@tbzmed.ac.ir t.khabbazi@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University Of Medical Sciences

Full name of responsible person

Tannaz Khabbazi

Position

MS student of Nutrition

Other areas of specialty/work

Street address

Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Phone

+98 41 1335 7580

Fax

Email

t.khabbazi@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tabriz University Of Medical Sciences

Full name of responsible person

Tannaz Khabbazi

Position

MS student of Nutrition

Other areas of specialty/work

Street address

Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Phone

+98 41 1335 7580

Fax

Email

t.khabbazi@gmail.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