

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Effect of intravenous vitamin C on the level of CRP in Hemodialysis patients

Protocol summary

Summary

This is a double blind placebo-controlled clinical trial to evaluate the effect of vitamin C on CRP and phosphorus levels in hemodialysis patients. 60 hemodialysis patients who meet inclusion criteria and don't have exclusion criteria randomly divided into two equal groups. 1- Intervention group who receive vial vit C 500mg/5cc intravenously. 2- Control group who receive 5cc normal saline intravenously. Each group receives its regimen at the end of hemodialysis 3 times a week for a period of 8 weeks. After this time period 10cc fasting venous blood sample will be taken from the patients before hemodialysis in order to compare CRP, phosphorus, calcium, oxalate, albumin, cholesterol, hemoglobin, hematocrit and parathyroid hormone levels to its level at the beginning of the study

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Email address

gholipourafshin@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2010-08-22, 1389/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904224365N1**

Registration date: **2010-06-22, 1389/04/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-06-22, 1389/04/01

Registrant information

Name

Afshin Gholipour Baradari

Name of organization / entity

Mazandaran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

Scientific title

Effect of intravenous vitamin C on the level of CRP in Hemodialysis patients

Public title

Effect of intravenous vitamin C on the level of CRP and phosphorus in Hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: signing informed consent, being under hemodialysis at least for 6 months prior to the study, being under hemodialysis 3 times a week, age between 20&70 years old Exclusion criteria: refusal at any time to continue the study, history of Infectious diseases and hospitalization within 2 months prior to the trial, history of vit E, vit C, alcohol & oil fish consumption within 2 months prior to the trial, History of renal transplantation, history of immunosuppressive drugs consumption within 2 months prior to the trial, history of statins and aspirin use, history of liver disease or malignancy, getting Systemic disease during the study

Age

From **20 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

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

Mazandaran University of Medical Sciences

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

sari

Postal code

46175866

Approval date

2010-07-07, 1389/04/16

Ethics committee reference number

89-54

Health conditions studied

1

Description of health condition studied

hemodialysis

ICD-10 code

Z49.1

ICD-10 code description

Extracorporeal dialysis

Primary outcomes

1

Description

serum CRP

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/l-laboratory kit

Secondary outcomes

1

Description

hemoglobin

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/dl , Laboratory kit

2

Description

cholesterol

Timepoint

before intervention, two months after the intervention

Method of measurement

mg/dl , Laboratory kit

3

Description

Phosphorus

Timepoint

before intervention, two months after the intervention

Method of measurement

mgr/dl ,Laboratory kit

Intervention groups

1

Description

Intervention group receives vial vit C 500mg/5cc intravenously at the end of hemodialysis 3 times a week for a period of 8 weeks

Category

Treatment - Drugs

2

Description

Control group receives 5cc normal saline intravenously at the end of hemodialysis 3 times a week for a period of 8 weeks

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

hemodialysis center of Imam Khomeini general

Hospital

Full name of responsible person

Afshin Gholipour Baradari, MD- CCMF- Assistant Professor

Street address

hemodialysis center of Imam Khomeini general Hospital- amir st

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Email

amie_ei@yahoo.com

Web page address

www.mazums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Ahmad Ali Enayati MD

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

Sari

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mazandaran 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

Mazandaran University Of Medical Sciences

Full name of responsible person

Amir Emami Zeidi

Position

MSc of Critical care nursing-Nurse of ICU

Other areas of specialty/work

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

Sari

Person responsible for scientific inquiries

Contact

Name of organization / entity

Mazandaran University Of Medical Sciences

Full name of responsible person

Fatemeh Espahbodi MD

Position

Nephrologist- Assistant Professor

Other areas of specialty/work

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Person responsible for updating data

Contact

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