

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Evaluation of effect of N-acetylcysteine on inflammatory markers in hemodialysis patients who referred to Shahid Beheshti hospital, Yasuj, Iran in 2015

Protocol summary

Summary

The purpose of this study is evaluation of effect of N-acetylcysteine on inflammatory markers in hemodialysis patients who referred to Shahid Beheshti hospital, Yasuj, Iran in 2015. Patients who dialyses at least two times per week for a 3 month period were included, and patients who take anti-inflammatory drugs such as steroids; patients who have active infectious disease, malignancy, kidney transplantation or rheumatic diseases were excluded. This double blind (for patients and physicians) RCT study is conducted on 40 hemodialysis patients who referred to the hemodialysis ward of Shahid Beheshti hospital in Yasuj city. Patients randomly were divided in to intervention and control group and receive N-acetylcysteine and placebo for 2 month period, respectively .For all patients before and after treatment, inflammatory markers such as: CRP -ESR-IL-6 -TG-Chol-Alb-Ferritin-Cr-PTH and etc. will checked and compared in two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015062222869N1**

Registration date: **2015-10-22, 1394/07/30**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-10-22, 1394/07/30

Registrant information

Name

Moslem Sedaghattalab

Name of organization / entity

Yasuj University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 74 3322 0163

Email address

m.sedaghattalab@yums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Yasuj University of Medical Science

Expected recruitment start date

2015-09-10, 1394/06/19

Expected recruitment end date

2015-11-21, 1394/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of effect of N-acetylcysteine on inflammatory markers in hemodialysis patients who referred to Shahid Beheshti hospital, Yasuj, Iran in 2015

Public title

Effect of N-acetylcysteine on inflammatory markers in hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients aged > 18 years; patients who were dialysed at least two times per week for a 3 month period Exclusion criteria: patients who take anti-inflammatory drugs such as steroids; patients who have

active infectious disease, malignancy, kidney transplantation, rheumatic diseases

Age

From **24 years** old to **88 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

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**

Ethics Committee of Yasuj University of Medical Science

Street address

Postal code 75917-41417, Yasuj University of Medical Science, Motahari street, Yasuj city

City

Yasuj

Postal code

75917-41417

Approval date

2015-09-09, 1394/06/18

Ethics committee reference number

yums.REC.1394.7

Health conditions studied**1****Description of health condition studied**

End stage renal disease

ICD-10 code

N18.5

ICD-10 code description

End stage kidney disease

Primary outcomes**1****Description**

Interleukin-6

Timepoint

2 month

Method of measurement

ELIZA

2**Description**

CRP

Timepoint

2 month

Method of measurement

ELIZA

Secondary outcomes**1****Description**

Drug reaction

Timepoint

2 month

Method of measurement

Questionnaire

Intervention groups**1****Description**

Intervention group: N-acetylcysteine tab, 600 mg bid for 2 month period

Category

Treatment - Drugs

2**Description**

control group: placebo tab bid, for 2 month period

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Hemodialysis ward of Shahid Beheshti hospital

Full name of responsible person**Street address****City**

Yasuj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Yasuj University of Medical Sciences

Full name of responsible person

Moslem Sedaghattalab

Street address

Postal code 75917-41417, Yasuj University of Medical Sciences, Motahari street, Yasuj city

City

Yasuj

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice Chancellor for research of Yasuj 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**

Yasuj University of Medical Science

Full name of responsible person

Moslem Sedaghattalab

Position

Assistant professor

Other areas of specialty/work**Street address**

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Yasuj

Postal code**Phone**

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Fax**Email****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