

# 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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**City**

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moslem.sedaghattalab@gmail.com

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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**Full name of responsible person**

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**Position**

Assistant professor

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

Emam Sajad hospital, Dr.Jalil street, Yasuj city, Postal code: 75919-94579

**City**

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*