

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

The effect of allopurinol on serum uric acid level and arterial blood pressure in hemodialysis patients

Protocol summary

Summary

This study is a single blind, controlled clinical trial to determine the effect of Allopurinol on serum uric acid level and arterial blood pressure in hemodialysis patients with hypertension and hyperuricemia. The main inclusion criteria are mild, moderate or severe hypertension and hyperuricemia (greater than 7 and 6 in men and women respectively) and excluding criteria are irregular use of the drug and the development of severe side effects. The study population consists of 146 patients undergoing hemodialysis. The patients are randomly divided into 2 groups. The first group will receive allopurinol as uric acid-lowering agent 100 mg daily for three months and the second group receive placebo as control for the same time. Then at the end of first, second and third months measurement of blood pressure and uric acid is done as the primary outcomes.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014120820243N1**

Registration date: **2015-01-03, 1393/10/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-01-03, 1393/10/13

Registrant information

Name

Seyed mohammad kazem Sadeghi

Name of organization / entity

Health Ministry

Country

Iran (Islamic Republic of)

Phone

+98 83 3421 3325

Email address

smk.sadeghi@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-01-21, 1393/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of allopurinol on serum uric acid level and arterial blood pressure in hemodialysis patients

Public title

Allopurinol prescription for better control of blood pressure

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Hypertension; hyperuricemia; patients must be on dialysis since at least 3 months ago; no taking diuretics; no taking other uric acid lowering agents; have signed the informed consent. Exclusion criteria: irregular use of the drug; presence of severe adverse effects

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **146**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah university of medical sciences

Street address

Shahid Beheshti Blv

City

Kermanshah

Postal code

Approval date

2014-03-04, 1392/12/13

Ethics committee reference number

53868

Health conditions studied

1

Description of health condition studied

hypertension

ICD-10 code

112.0

ICD-10 code description

Hypertensive renal disease with renal failur

2

Description of health condition studied

hyperuricemia

ICD-10 code

E79.0

ICD-10 code description

Asymptomatic hyperuricaemia

Primary outcomes

1

Description

Blood pressure

Timepoint

before intervention,one and two and three months after begining

Method of measurement

by mercury barometer in scale of mm Hg

2

Description

uric acid

Timepoint

Before intervention 1,2 and 3 months later

Method of measurement

by blood sampling

Secondary outcomes

1

Description

the drug side effects

Timepoint

Before intervention 1,2 and 3 months later

Method of measurement

clinical manifestations and CBC

Intervention groups

1

Description

Intervention group:they get Allopurinol 100 mg one tablet daily for three months with meal(lunch ordinner)

Category

Treatment - Drugs

2

Description

control:multivitamine one tablet daily for three months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imamreza Hospital

Full name of responsible person

Seyed Mohammadkazem sadeghi internal medicine resident

Street address

Imamreza Hospital Dialysis ward

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Hamzehee Koroush

Street address

Shahid Beheshti Street

City

Kermanshah

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kermanshah 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

Kermanshah University Of Medical Sciences

Full name of responsible person

Seyed Mohammad kazem Sadeghi

Position

Internal resident

Other areas of specialty/work

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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