

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Clinical Trial of Assessing Allopurinol Effect on Metabolic Acidosis in Patients with Chronic renal failure stage 2-4

Protocol summary

Summary

The aim of this study was to evaluate the effect of allopurinol on the improvement of metabolic acidosis in chronic renal failure. This study was conducted on patients with renal insufficiency, stage 2 to 4. The sample contains 50 people who are randomly selected in to two groups of 25 people. In the treatment group, allopurinol 100 mg daily was given to the patients and the control group received placebo. Then patients' metabolic acidosis and bicarbonate level will be measured at the start of study and after 3 months. This study was performed in two centers. Inclusion criteria: age 18-80, Chronic kidney disease stage 2-4, both genders. Exclusion criteria: gout, myeloproliferative disorder, allopurinol user, allergy to allopurinol, uric acid > 10, active infection.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016122731604N1**

Registration date: **2017-08-05, 1396/05/14**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-08-05, 1396/05/14

Registrant information

Name

Maryam Miri

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 3841 3781

Email address

mirighm@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research Mashhad University Of Medical Sciences

Expected recruitment start date

2017-04-30, 1396/02/10

Expected recruitment end date

2017-11-01, 1396/08/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Trial of Assessing Allopurinol Effect on Metabolic Acidosis in Patients with Chronic renal failure stage 2-4

Public title

Assessing Allopurinol Effect on Metabolic Acidosis in Patients with Chronic renal failure stage 2-4

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion: age 18-80, Chronic kidney disease stage 2-4, both gender exclusion: gout, myeloproliferative disorder, allopurinol user, allergy to allopurinol, uric acid > 10, active infection

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

randomised with closed envelopes

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee Of Mashhad University of Medical
Sciences

Street address

Daneshgah street

City

Mashhad

Postal code

Approval date

2016-04-26, 1395/02/07

Ethics committee reference number

IR.MUMS.REC.1395.247

Health conditions studied

1

Description of health condition studied

CKD

ICD-10 code

N18

ICD-10 code description

Chronic kidney disease

2

Description of health condition studied

CKD stage 2-4

ICD-10 code

N18.2-N18.

ICD-10 code description

Kidney damage with mild decreased GFR (60-89 mL/min)

Primary outcomes

1

Description

bicarbonate

Timepoint

before intervention,after 3 month

Method of measurement

blood level meq/L

2

Description

uric acid

Timepoint

before intervention,3 month

Method of measurement

blood level mg/mL

Secondary outcomes

empty

Intervention groups

1

Description

allopurinol 1 tablet of Allopurinol 100mg per day in
intervention group for 3 month

Category

Treatment - Drugs

2

Description

placebo in control group

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghaem hospital

Full name of responsible person

Maryam Miri Ghalehnovi

Street address

Ahmadabad Street

City

Mashhad

2

Recruitment center

Name of recruitment center

Montaserie hospital

Full name of responsible person

Maryam Miri Ghalehnovi

Street address

Golestan Street

City

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University Of Medical Siences

Full name of responsible person

Vice chancoller for research Mashhad University Of Medical Siences

Street address

Daneshgah Street

City

Mashhad

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

Yes

Title of funding source

Mashhad University Of Medical Siences

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

Mashhad University of Medical Siences

Full name of responsible person

Maryam Miri Ghalehnovi

Position

Nephrologist

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

Internal Ward,Ghaem Hospital

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mirighm@mums.ac.ir

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhad University of Medical Siences,school of medicine

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Position

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Person responsible for updating data

Contact

Name of organization / entity

Mashhad University of Medical Siences

Full name of responsible person

Maryam Miri Ghalehnovi

Position

Assistant professor of nephrology

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

Internal Ward,Ghaem Hospital

City

Mashhad

Postal code**Phone**

00

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