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, myeloprolifrative 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 Siences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Vice chancoller for research Mashhad University Of Medical Siences

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,myeloprolifrative 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 commitee Of Mashhad University of Medical Siences
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 mounth
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
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Golestan Street
City

Mashhad

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
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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