Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of metformin effect on progression of autosomal dominant polycystic kidney disease; a clinical trial

Protocol summary

Summary

1)objectives: evaluation of metformin effect on progression of autosomal dominant polycystic kidney disease. 2)Design: double blind randomized placebo controlled trial. 3)Setting and conduct: measurement of kidneys volume with MRI in 30 patients with autosomal dominant polycystic kidney disease in Firoozgar hospital, then prescription of drug or placebo for 6 months after random allocation to two groups, then measurement of kidneys volume again. 4)Participants: patients with diagnosis of autosomal dominant polycystic kidney disease. major eligibility criteria: age between 18-60 years old; glomerular filtration rate >=60cc/min. exclusion criteria: history of diabetes mellitus; history of congestive heart failure; history of liver failure. 5)Interventions: metformin or placebo. 6)main outcome measures: kidneys volume

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012102111194N1**
Registration date: **2013-02-13, 1391/11/25**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-02-13, 1391/11/25

Registrant information

Name
Foroogh Sabzghabaei
Name of organization / entity
Tehran University of Medical Science
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research,Tehran University of Medical Science

Expected recruitment start date

2013-02-01, 1391/11/13

Expected recruitment end date

2014-02-01, 1392/11/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of metformin effect on progression of autosomal dominant polycystic kidney disease; a clinical trial

Public title

Evaluation of metformin effect on progression of autosomal dominant polycystic kidney disease; a clinical trial

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion: Known case of Autosomal dominant polycystic kidney disease (by sonography); age between 18-60 years old; GFR>=60 cc/min. Exclusion: history of diabetes mellitus; history of heart failure; history of liver failure

Age

From **18 years** old to **60 years** old

Gender

Both

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

1

Registry name
no
Secondary trial Id
no
Registration date
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethic committee of Tehran University of Medical Science
Street address
Ghods st., Keshavarz Blvd.
City
Tehran
Postal code
Approval date
2012-12-26, 1391/10/06
Ethics committee reference number
17059

Health conditions studied

1

Description of health condition studied
Autosomal Dominant Polycystic Kidney Disease
ICD-10 code
Q61.2
ICD-10 code description
Polycystic kidney, adult type

Primary outcomes

1

Description
kidneys volume
Timepoint
6 months
Method of measurement
Magnetic Resonance Imaging

Secondary outcomes

empty

Intervention groups

1

Description
Tablet Metformin 500 mg three times a day
Category
Treatment - Drugs

2

Description
Tablet placebo one tab three times a day
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Firoozgar Hospital
Full name of responsible person
Dr. Foroogh Sabzghabaei
Street address
Behafarin St., Karimkhan Zand Ave., Valiasr Sq.
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice-chancellor for research,Tehran University of Medical Science
Full name of responsible person
Akbar Fotuhi M.D.
Street address
Ghods st., Keshavarz Blvd.
City
Tehran
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,Tehran University of Medical Science
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