Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effectiveness of allopurinol and placebo in reducing depressive symptoms in patients with major depressive disorder

Protocol summary

Summary

The aim of this study was to investigate the role of allopurinol in the treatment of major depression is a double-blinded, 70 patients with major depression referred to Amir Kabir Hospital after diagnosis according to the clinical interview based on DSMV-TR randomly divided into two equal groups Both groups received 40 mg of citalopram for 6 weeks in addition to the 300 mg allopurinol daily citalopram treatment group and the control group will receive a placebo. At the end of the third week and sixth of the Hamilton depression will be reassessed. Also, the effects of allopurinol liver after 2 to 4 weeks of treatment, liver tests will be repeated again. Inclusion criteria: age 18 to 65 years, diagnosed with major depression based on clinical interviews and diagnostic criteria for DSM V; normal blood levels of uric acid and liver enzymes (ALT, AST) Exclusion criteria: Serious psychiatric disorders, personality disorders; Taking several drugs simultaneously; severe physical illness; Sensitivity to allopurinol

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201508277373N6**
Registration date: **2015-12-03, 1394/09/12**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-12-03, 1394/09/12

Registrant information

Name

Hamidreza Jamilian

Name of organization / entity

Arak University Of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Deputy for Research and Technology Arak University of Medical Sciences

Expected recruitment start date

2015-07-11, 1394/04/20

Expected recruitment end date

2016-07-10, 1395/04/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effectiveness of allopurinol and placebo in reducing depressive symptoms in patients with major depressive disorder

Public title

Comparison of the effectiveness of allopurinol and placebo in reducing depressive symptoms in patients with major depressive disorder

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 18 to 65 years, diagnosed with major depression based on clinical interviews and diagnostic criteria for DSM V; normal blood levels of uric acid and liver enzymes (ALT, AST) Exclusion criteria: Serious psychiatric disorders, personality disorders;

Taking several drugs simultaneously; severe physical illness; Sensitivity to allopurinol

Age
From **18 years** old to **65 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **70**

Randomization (investigator's opinion)
N/A

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
Arak University of Medical Sceinces

Street address
Alamolhoda St., Maskan St., Arak

City
Arak

Postal code

Approval date
2015-07-11, 1394/04/20

Ethics committee reference number
IR.ARAKMU.REC.1394.68

Health conditions studied

1

Description of health condition studied
Major depression

ICD-10 code
F32.0

ICD-10 code description
Mild depressive episode

2

Description of health condition studied
Major depression

ICD-10 code
F32.1

ICD-10 code description
Moderate depressive episode

Primary outcomes

1

Description
Hamilton Square

Timepoint
Before the intervention, 4 to 6 weeks, end of study

Method of measurement
Hamilton questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
The intervention group clinical citalopram 40 mg for 6 weeks plus allopurinol 300 mg daily receive.

Category
Treatment - Drugs

2

Description
Clinical citalopram 40 mg daily for 6 weeks plus a control group that received placebo.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Amir Kabir Hospital and Emam Reza Clinical

Full name of responsible person
Dr. Jamilian Hamidreza

Street address
Amir Kabir Hospital, Rahahan St., Arak

City
Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Arak University of Medical Sceinces

Full name of responsible person
Dr. Rafiee Mohammad

Street address
School of Medicine, Alamolhoda St., Maskan St., Arak

City

Arak

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Arak University of Medical Sceinces

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

Arak University of Medical sceinces

Full name of responsible person

Dr. Ranjbaran Farideh

Position

Resident of Psychiatry

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