

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Assessment of additive effects of crocin in men with depression induced by amphetamine withdrawal

Protocol summary

Study aim

Additive effects of crocin on depression symptoms in men with moderate depression induced by amphetamine withdrawal admitted to Ibn-e-Sina Hospital, Mashhad

Design

A Randomized, Triple-Blind, Placebo-Controlled Clinical Trial Triple masking (Participant, Investigator, Outcomes Assessor and Statistician)

Settings and conduct

Patients referred to Ibn-e-sina hospital- Mashhad- Iran, after signing informed consent, will be randomly allocated to the following two groups. Placebo Group in which, patients (n=30) will receive placebo tablets and Crocin Group in which, patients (n=30) will receive Crocin 15 mg, daily, for 12 weeks. All subjects will receive the conventional depression therapy during study.

Participants/Inclusion and exclusion criteria

Inclusion criteria: (1) Men with moderate depression induced by amphetamine withdrawal, (2) Being 20-50 years old, (3) Patient consent to participate in the study, (4) Not having specific physical (e.g. cancer, Acquired immunodeficiency syndrome (AIDS), Multiple Sclerosis (MS)) or mental illness, (5) Not having allergic to saffron/crocin Exclusion criteria: Lack of patient cooperation in Crocin consumption Having allergic reaction or intolerable side effect caused by crocin

Intervention groups

Placebo Group in which, patients (n=30) will receive placebo tablets and Crocin Group in which, patients (n=30) will receive Crocin 15 mg daily for 12 weeks.

Main outcome variables

Beck Depression Inventory (BDI) questionnaire and General Health Questionnaire (GHQ) will be completed before treatment (day 0) and at the end of weeks 4, 8 and 12 after starting treatment.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160804029191N3**

Registration date: **2021-12-02, 1400/09/11**

Registration timing: **prospective**

Last update: **2021-12-02, 1400/09/11**

Update count: **0**

Registration date

2021-12-02, 1400/09/11

Registrant information

Name

Vahideh Ghorani Sirjani

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 51 3882 8565

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-01-21, 1400/11/01

Expected recruitment end date

2022-07-21, 1401/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of additive effects of crocin in men with depression induced by amphetamine withdrawal

Public title

Effect of crocin on depression induced by amphetamine withdrawal

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Men with moderate depression induced by amphetamine withdrawal Being 20-50 years old Patient consent to participate in the study Not having specific physical (e.g. cancer, Acquired immunodeficiency syndrome (AIDS), Multiple Sclerosis (MS)) or mental illness Not having allergic to saffron/crocin

Exclusion criteria:

Lack of patient cooperation in Crocin consumption Having allergic reaction or intolerable side effect caused by crocin

Age

From **20 years** old to **50 years** old

Gender

Male

Phase

3

Groups that have been masked

- Participant
- Care provider
- Investigator

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization method (using <https://www.Randomization.com-generated> sequence). In this method, using website <https://www.Randomization.com> that generates the random number sequences, the random number sequences are determined for the required sample size (n=30 in each group). Following, after patients enter the study based on the inclusion criteria, according to the list of the random number sequences generated, individuals are assigned to one of the intervention and placebo groups, and this continues until the number of patients in each group is completed.

Blinding (investigator's opinion)

Triple blinded

Blinding description

Drugs will be packed and labelled . No information on the randomization schedule or the contents of drug packs will be available to patients, investigators, care providers and outcomes assessors and they will be blinded. The patients will be blinded in the sense that they do not know whether they were receiving the placebo or crocin. They randomly assign to one of the two groups. The investigators doing the interventions will be blinded as to the contents of the drug using drugs labelling. Also care providers and outcomes assessors shall be blinded as to

what group the patient belongs to. One person in the project who does not belong to any of the groups of patients, investigators, care providers and outcomes assessors, will oversee on blinding method.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Mashhad University of Medical Sciences

Street address

Faculty of Medicine, Ferdowsi University campus, Azadi square

City

Mashhad

Province

Razavi Khorasan

Postal code

9177948564

Approval date

2021-08-24, 1400/06/02

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1400.379

Health conditions studied

1

Description of health condition studied

Depression

ICD-10 code

F33

ICD-10 code description

Recurrent depressive disorder

Primary outcomes

1

Description

Beck Depression Inventory (BDI) questionnaire

Timepoint

Before treatment (day 0) and at the end of weeks 4, 8 and 12 after starting treatment

Method of measurement

Completion of the questionnaire by patient or researcher

2

Description

General Health Questionnaire (GHQ)

Timepoint

Before treatment (day 0) and at the end of weeks 4, 8 and 12 after starting treatment

Method of measurement

Completion of the questionnaire by patient or researcher

Secondary outcomes

empty

Intervention groups

1

Description

Control group: In this group, patients (n=30) will receive placebo tablet (Containing Avicel, made by School of Pharmacy, Mashhad University of Medical Sciences), daily for 12 weeks.

Category

Treatment - Drugs

2

Description

Intervention group: In this group, patients (n=30) will receive 15 mg crocin tablet (made by School of Pharmacy, Mashhad University of Medical Sciences), daily for 12 weeks.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ibn-e-Sina Hospital

Full name of responsible person

Maedeh Kamrani

Street address

Horr-e-Ameli St., Ibn-e-Sina hospital

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9195983134

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ISH.IT@MUMS.AC.IR

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Majid Ghayour-Mobarhan

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Ghoreshi department, Daneshgah Ave

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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 Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Ramin Rezaee

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Toxicology

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Ibn Sina St., Imam Reza Hospital Square, Imam Reza Hospital

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Maedeh Kamrani

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Psychiatrics

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

Vahideh Ghorani Sirjani

Position

Ph.D.

Latest degree

Ph.D.

Other areas of specialty/work

Physiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Dr. Vahideh Ghorani is committed to presenting all the achievements of the project in accordance with the framework of Mashhad University of Medical Sciences.

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available