

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of the effectiveness of adding probiotic / prebiotic combination to the usual treatment on the severity of depressive symptoms and irritable bowel syndrome

Protocol summary

Study aim

Determining and comparing the effectiveness of probiotic/prebiotic combination on the severity of depressive symptoms and irritable bowel syndrome

Design

The randomized, double-blind clinical trial, with the parallel groups, Phase 3 on 48 patients

Settings and conduct

In this randomized double-blind clinical trial study, 48 eligible patients referred to the gastroenterology and psychiatry clinic of Al-Zahra hospital of Isfahan will be included in the study and will be randomly divided into 2 groups. Patients in the control group will be given the usual treatment, and in the intervention group, a probiotic/prebiotic combination will be prescribed. The patient and the researcher will have no knowledge of the type of intervention and the conditions were double-blind. Then the symptoms of depression and IBS of patients will be compared between the two groups.

Participants/Inclusion and exclusion criteria

Inclusion criteria included age 18 to 65 years, diagnosis of moderate to severe IBS, minimum literacy, no depressive disorders, bipolar disorder or psychotic disorders, no suicide plan or serious thoughts at the time of enrollment, no pregnancy or breastfeeding, no history of any bowel surgery, no drug use From the onset of symptoms and consent to participate in the study. Exclusion criteria include the diagnosis of any organic disease during the study, non-cooperation in the use of drugs regularly, and the occurrence of any side effects, including allergic and gastrointestinal complications.

Intervention groups

Intervention group: For patients in this group, in addition to the usual treatment, the probiotic/prebiotic combination is given as one capsule daily for 12 weeks. Control group: For patients in this group, only the usual treatment is used.

Main outcome variables

Depression, Anxiety, Stress

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190404043159N5**

Registration date: **2021-12-13, 1400/09/22**

Registration timing: **prospective**

Last update: **2021-12-13, 1400/09/22**

Update count: **0**

Registration date

2021-12-13, 1400/09/22

Registrant information

Name

Mohammad Reza Sharbafchi

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-12-22, 1400/10/01

Expected recruitment end date

2022-03-21, 1401/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty
Trial completion date
empty

Scientific title
Evaluation of the effectiveness of adding probiotic / prebiotic combination to the usual treatment on the severity of depressive symptoms and irritable bowel syndrome

Public title
Evaluation of the effectiveness of probiotic/prebiotic on the severity of depressive symptoms and irritable bowel syndrome

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age 18 to 65 years
Diagnosis of moderate to severe IBS based on ROME III criteria
Have a minimum literacy
Absence of Depressive Disorders, Bipolar Disorders or Psychotic Disorders Based on DSM-V Diagnostic Criteria by Psychiatrist and Psychiatric Assistant
No suicidal plans or thoughts at the time of enrollment
Do not take antidepressants and anti-anxiety drugs at the time of enrollment until 2 weeks before
No pregnancy or breastfeeding
No history of any bowel surgery
Do not use drugs since the onset of symptoms
Satisfaction to participate in the study

Exclusion criteria:

Diagnosis of any organic disease during the study
Lack of cooperation in taking medications regularly
Causes any side effects, including allergic and gastrointestinal side effects

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

Gender
Both

Phase
3

Groups that have been masked

- Participant
- Investigator
- Data analyst

Sample size
Target sample size: **48**

Randomization (investigator's opinion)
Randomized

Randomization description
In this study, 48 eligible patients are randomly selected. For this, the letter A is written on 24 sheets, and the letter B is written on 24 sheets and each of them is placed in an envelope. Each patient is then asked to choose one of the envelopes. Depending on the selected envelope, the patient is assigned to one of two groups.

Blinding (investigator's opinion)
Double blinded

Blinding description
In order to observe blindness, the drugs are prepared in the same shape and amount before the intervention and are coded and given to the physician. They prescribe

them without knowing the type of each drug. Therefore, the patient, the patient, the person recording the clinical and baseline information of the patients as well as the statistical analyst will not be aware of the type of intervention.

Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Esfahan university of Medical sciences

Street address

No. 18, Hezar Jarib Ave., Daneshgah Blvd., Isfahan

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Isfahan

Province

Isfahan

Postal code

۸۱۳۷۸۶۶۵۱۵

Approval date

2021-09-27, 1400/07/05

Ethics committee reference number

IR.MUI.MED.REC.1400.510

Health conditions studied

1

Description of health condition studied

Irritable bowel syndrome

ICD-10 code

K58

ICD-10 code description

Irritable bowel syndrome

Primary outcomes

1

Description

Symptoms of Irritable Bowel Syndrome

Timepoint

Before intervention, 6 and 12 weeks after intervention

Method of measurement

Questionnaire the irritable bowel severity scoring system (IBSSS)

Secondary outcomes

1

Description

Depression

Timepoint

Before intervention, 6 and 12 weeks after intervention

Method of measurement

Questionnaire of Depression, Anxiety and Stress Scale (DASS)

2

Description

Anxiety

Timepoint

Before intervention, 6 and 12 weeks after intervention

Method of measurement

Questionnaire of Depression, Anxiety and Stress Scale (DASS)

3

Description

Stress

Timepoint

Before intervention, 6 and 12 weeks after intervention

Method of measurement

Questionnaire of Depression, Anxiety and Stress Scale (DASS)

Intervention groups

1

Description

Intervention group 1: For patients in this group, in addition to the usual treatment, the probiotic/prebiotic combination of familact 2 Plus (which contains eight bacterial strains and the prebiotic fructooligosaccharide) is given as one capsule daily for 12 weeks.

Category

Treatment - Drugs

2

Description

Control group: For patients in this group, only the usual treatment is used and capsules containing corn starch (as a placebo) similar to the intervention group will be prescribed.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Al-Zahra Hospital

Full name of responsible person

Mohammad Reza Sharbafchi

Street address

Department of Psychiatry, Al-Zahra Hospital, Hezar Jarib Street.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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Grant name

Grant code / Reference number

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

No

Title of funding source

Isfahan 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

Esfahan University of Medical Sciences

Full name of responsible person

Mohammad Reza Sharbafchi

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Psychiatrics

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Latest degree

Specialist

Other areas of specialty/work

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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

There is no further information

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