

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of ondansetron in the treatment of patients with diarrhea dominant irritable bowel syndrome (IBS)

#### Protocol summary

##### Study aim

The effect of ondansetron in treatment of patients with diarrhea dominant irritable bowel syndrome (IBS)

##### Design

A randomized controlled clinical trial with double blinded and randomized parallel groups

##### Settings and conduct

This study will be conducted in Valiasr hospital. Patients were randomly divided to two groups of intervention and control. For 2 months, the intervention group will receive imipramine and ondansetron; while control group will receive imipramine and placebo.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: patients with irritable bowel syndrome and diarrhea predominance based on Rome III criteria, age between 18-50 years. Exclusion criteria: Pregnancy, Lactation, Dissatisfaction to be include in the study, Any sign and symptom of inflammatory bowel disease, Psychiatric drug use, History of drugs Interaction with ondansetron, Bowel surgery except appendectomy and cholecystectomy

##### Intervention groups

Intervention group: 50 patients treated by Imipramine (made by Abidi Pharma Compony) daily 25 mg and ondansetron (made by Abidi Pharma Compony) 4mg 3 times per day for up to 2 months. Control group: 50 patients treated by Imipramine (made by Abidi Pharma Compony) daily 25 mg and placebo (containing Avicel and made by the School of Pharmacy) 4mg 3 times per day for up to 2 months.

##### Main outcome variables

Defecation urgency; Bloating; Pain; Diarrhea

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20190703044084N2**

Registration date: **2020-04-20, 1399/02/01**

Registration timing: **retrospective**

Last update: **2020-04-20, 1399/02/01**

Update count: **0**

##### Registration date

2020-04-20, 1399/02/01

##### Registrant information

###### Name

sattar jafari

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 24 3377 0801

###### Email address

jafari1354@zums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2019-06-27, 1398/04/06

##### Expected recruitment end date

2020-03-20, 1399/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of ondansetron in the treatment of patients with diarrhea dominant irritable bowel syndrome (IBS)

##### Public title

Effect of ondansetron in treatment of irritable bowel syndrome (IBS)

## Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

Patients with irritable bowel syndrome with diarrhea predominance based on Rome III criteria Age:Between 18-50 years

### Exclusion criteria:

Pregnancy Lactation Dissatisfaction to be included in the study Any sign and symptom of inflammatory bowel disease Psychiatric drug use Drugs Interaction with ondansetron including: p450 enzyme system inducers (carbamazepine, phenobarbital, phenytoin, dexamethasone, rifampicin) p450 enzyme system inhibitors (clarithromycin erythromycin ketoconazole) 3 History of any bowel surgery except appendectomy and cholecystectomy

## Age

From **18 years** old to **50 years** old

## Gender

Both

## Phase

3

## Groups that have been masked

- Participant
- Investigator
- Outcome assessor

## Sample size

Target sample size: **100**

## Randomization (investigator's opinion)

Randomized

## Randomization description

In this study, 100 patients with irritable bowel syndrome will be randomly studied in two groups, each including 50. Randomization in the mentioned groups will be conducted according to permuted block randomization based on quaternary blocks.

## Blinding (investigator's opinion)

Double blinded

## Blinding description

This is a double-blind and placebo-controlled study. Placebo will be provided similar to androsterone in terms of taste, flavor and color, by the School of Pharmacy. The content of Placebo is Avicel. Medicines will be delivered to patients by a third person (a health care provider) who is not directly involved in the research.

## Placebo

Used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

## 1

### Ethics committee

#### Name of ethics committee

Ethics committee of Zanjan University of Medical Science

#### Street address

No 1. Jomhori boulevard, Azadi square, Zanjan city.

#### City

Zanjan

#### Province

Zanjan

#### Postal code

۴۵۱۵۶۱۳۱۹۱

### Approval date

2019-06-26, 1398/04/05

### Ethics committee reference number

IR.ZUMS.REC.1398.121

## Health conditions studied

## 1

### Description of health condition studied

Irritable Bowel Syndrome with diarrhea

### ICD-10 code

K58.0

### ICD-10 code description

Irritable bowel syndrome with diarrhea

## Primary outcomes

## 1

### Description

Defecation urgency

### Timepoint

Beginning of the study and 2 months later

### Method of measurement

checklist; irritable bowel syndrome severity score questionnaire

## 2

### Description

pain

### Timepoint

Beginning of the study and 2 months later

### Method of measurement

checklist; irritable bowel syndrome severity score questionnaire

## 3

### Description

bloating

### Timepoint

Beginning of the study and 2 months later

### Method of measurement

checklist; irritable bowel syndrome severity score questionnaire

## 4

### Description

diarrhea

### Timepoint

Beginning of the study and 2 months later

### Method of measurement

Bristol stool scale form; checklist; irritable bowel syndrome severity score questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: 50 patients treated by Imipramine (made by Abidi Pharma Compony) daily 25 mg and ondansetron (made by Abidi Pharma Compony) 4mg 3 times per day for up to 2 months.

#### Category

Treatment - Drugs

### 2

#### Description

Control group: 50 patients treated by Imipramine (made by Abidi Pharma Compony) daily 25 mg and placebo (containing Avicel and made by the School of Pharmacy) 4mg 3 times per day for up to 2 months.

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Vali-e-Asr hospital

##### Full name of responsible person

Sattar Jafari

##### Street address

Hazrat Valiasr Training Center, Valiasr Square, Zanzan

##### City

Zanzan

##### Province

Zanzan

##### Postal code

7797845157

##### Phone

+98 24 3377 0801

##### Email

valiasr@zums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Zanzan University of Medical Sciences

##### Full name of responsible person

Alireza Shoghli

##### Street address

Zanzan University of Maedical Science Central Office, Azadi Square, Zanzan

##### City

Zanzan

##### Province

Zanzan

##### Postal code

۴۵۱۵۶۱۳۱۹۱

##### Phone

+98 24 3342 0651

##### Email

info@zums.ac.ir

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Zanzan 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

Zanzan University of Medical Sciences

##### Full name of responsible person

Sattar Jafari

##### Position

Assistant professor

##### Latest degree

Subspecialist

##### Other areas of specialty/work

Internal Medicine

##### Street address

Valiasr hospital, Valiasr square.

##### City

Zanzan

##### Province

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##### Postal code

4515777978

##### Phone

+98 24 3377 0801

##### Fax

**Email**

jafari1354@zums.ac.ir

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Zanjan University of Medical Sciences

**Full name of responsible person**

Sattar Jafari

**Position**

Associate professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Internal Medicine

**Street address**

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**Person responsible for updating data****Contact****Name of organization / entity**

Zanjan University of Medical Sciences

**Full name of responsible person**

Sattar Jafari

**Position**

Assistant professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Internal Medicine

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**City**

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**Province**

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**Postal code**

4515777978

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0098 24337770801

**Email**

jafari1354@zums.ac.ir

**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**

No more 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