

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Determination of the melatonin effect on gastrointestinal symptoms and quality of life in patients with irritable bowel syndrome with and without sleep disorders

Protocol summary

Study aim

Comparison of the melatonin effect on gastrointestinal symptoms and quality of life in irritable bowel syndrome patients with and without sleep disorders

Design

Double blind randomised _ paralalled clinical trial which participants randomly allocated to control (n=68) and melatonin supplementation groups(n=68)

Settings and conduct

In this study, patients referred to Imam Reza Hospital, after the definitive diagnosis of irritable bowel syndrome, using the ROME 4 diagnosis index, enter the study if they complete the informed consent form. According to the PSQI sleep questionnaire, patients were divided into two groups with and without sleep disorders. Each group are randomly divided into control and paralalled groups, and the paralalled group will receive 2 melatonin 3 mg tablets and the control group received two placebo.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients diagnosed with irritable bowel syndrome based on ROME 4 diagnostic index. According to the PSQI sleep questionnaire, they are with and without sleep disorders. Exclusion criteria: depression, history of bowel surgery, dietary supplements and herbal remedies

Intervention groups

Paralalled group will receive 2 melatonin 3 mg tablets every 12 hours. The control group also will receive two placebo pills every 12 hours.

Main outcome variables

In this study, the effects of melatonin tablets on the severity of abdominal pain, bloating intensity, stool form, quality of life (Based on a valid quality of life questionnaire in patients with irritable bowel syndrome), sleep quality (Based on PSQI sleep quality questionnaire) in patients with irritable bowel syndrome will be evaluated in comparison with the control group.

General information

Reason for update

Acronym

IBS

IRCT registration information

IRCT registration number: **IRCT20220104053626N2**

Registration date: **2022-02-13, 1400/11/24**

Registration timing: **registered_while_recruiting**

Last update: **2022-02-13, 1400/11/24**

Update count: **0**

Registration date

2022-02-13, 1400/11/24

Registrant information

Name

Masood Dinevari

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 41 3334 7054

Email address

dinvarim@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-01-20, 1400/10/30

Expected recruitment end date

2022-04-18, 1401/01/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	will be in. Placebo tablets are similar in appearance, color, and size to melatonin tablets.
Scientific title	Placebo
Determination of the melatonin effect on gastrointestinal symptoms and quality of life in patients with irritable bowel syndrome with and without sleep disorders	Used
Public title	Assignment
comparison of the melatonin effect in irritable bowel syndrome patients	Parallel
Purpose	Other design features
Supportive	
Inclusion/Exclusion criteria	Secondary Ids
Inclusion criteria:	empty
being satisfied to participate in the study Patients with definitive diagnosis of IBS based on ROME 4 questionnaire, with sleep disorders diagnosed based on PSQI questionnaire. Patients with definitive diagnosis of IBS based on ROME 4 questionnaire, without sleep disorders	Ethics committees
Exclusion criteria:	1
Previous history of diagnosed gastrointestinal diseases including IBD Intestinal surgery Depression Receive herbal medicines	Ethics committee
Age	Name of ethics committee
No age limit	Ethics Committee of Tabriz University of Medical Sciences
Gender	Street address
Both	Tabriz University of Medical Sciences, Daneshgah St, Golgasht St.
Phase	City
2-3	Tabriz
Groups that have been masked	Province
- Participant - Investigator	East Azarbaijan
Sample size	Postal code
Target sample size: 136	5166614766
Randomization (investigator's opinion)	Approval date
Randomized	2021-08-01, 1400/05/10
Randomization description	Ethics committee reference number
Among the patients who volunteered to participate in the study, 136 people will be selected by simple random sampling. Randomization method: block Randomization unit: individual Random layers: In each block, people will be matched based on age and gender. Random allocation tool: Random allocation software How to build a random sequence: Using Random allocation software Concealment: A random sequence created in a safe place and performed by an independent person not involved in the trial during the study. Random allocation of hidden individuals, patients and researchers will not be aware of it.	IR.TBZMED.REC.1400.387
Blinding (investigator's opinion)	Health conditions studied
Double blinded	1
Blinding description	Description of health condition studied
This study is a double-blind study in which the researcher of this study and the patients participating in the study will be unaware of the type of supplement received. The supplements will be provided to patients by another person who has no role in completing the questionnaire. They will also be informed of the existence of two types of supplements (melatonin and placebo) when obtaining consent, but will be unaware of which study groups they	Irritable Bowel Syndrome
	ICD-10 code
	K58
	ICD-10 code description
	Irritable bowel syndrome
	Primary outcomes
	1
	Description
	Abdominal pain severity based on a questionnaire on a percentage scale, From zero with an increase of 25 units
	Timepoint
	Before and after the intervention
	Method of measurement
	Irritable Bowel Syndrome Symptoms Severity Questionnaire
	2
	Description
	Quality of life based on the quality of life questionnaire

for patients with irritable bowel syndrome

Timepoint
Before and after the intervention

Method of measurement
the quality of life questionnaire for patients with irritable bowel syndrome

3

Description
Intensity of bloating based on a questionnaire as a percentage scale, From zero with an increase of 25 units

Timepoint
Before and after the intervention

Method of measurement
Irritable Bowel Syndrome Symptoms Severity Questionnaire

4

Description
Stool form

Timepoint
Before and after the intervention

Method of measurement
Irritable Bowel Syndrome Symptoms Severity Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Melatonin. Patients in the intervention group who will take two melatonin 3 mg tablets daily (manufactured by Zahravi Pharmaceutical Company) for two months during the study.

Category
Treatment - Other

2

Description
Control group: Control group: placebo. Patients in the placebo group who will take two placebo tablets daily (manufactured by Zahravi Pharmaceutical Company) during two months of study.

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Emam reza hospital

Full name of responsible person
Farzaneh Jafarzadeh

Street address
Emam reza hospital, Golgast st, Tabriz.

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farzanehjafarzadeh998@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tabriz University of Medical Sciences

Full name of responsible person
Masood dinevari

Street address
Tabriz University of Medical Sciences, Golgasht St, Tabriz

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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
Tabriz 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
Tabriz University of Medical Sciences

Full name of responsible person
Masood Dinevari

Position

Assistant Professor

Latest degree

Subspecialist

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be 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

Not applicable