

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 May 2026

The effects of cholecalciferol, soy isoflavones, and co-administration of them versus placebo on pain, flatulence and quality of life in patients with irritable bowel syndrome

Protocol summary

Summary

Fasting blood specimens were taken from the patients with IBS that have inclusion criteria. First, the objectives and method of study will be explained to the patients and informed consent form was taken from them. They will be divided into 4 groups by an adjusted randomized blocking and the clinical outcomes, quality of life, emotional stress questionnaires will be completed before and after intervention. During 6 weeks, they will receive 2 capsules of soy isoflavones per day, 50000IU vitamin d biweekly in addition to the other placebo form, both of them and placebo of both. At the end, body mass index (BMI), serum TNF-Alpha, TAC, gene expression of GATA3, ROR gamma, FOXP3 in lymphocytes and gut permeability will be measured. The quantity of polymorphisms of vitamin D and estrogen receptors will be determined.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013112915582N1**

Registration date: **2014-01-03, 1392/10/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-01-03, 1392/10/13

Registrant information

Name

Mahsa Jalili

Name of organization / entity

Shahid Beheshti University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

National Nutrition and Food Technology Institute
Digestive Disorders Research Institute

Expected recruitment start date

2013-12-22, 1392/10/01

Expected recruitment end date

2014-03-21, 1393/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of cholecalciferol, soy isoflavones, and co-administration of them versus placebo on pain, flatulence and quality of life in patients with irritable bowel syndrome

Public title

The effects of cholecalciferol and soy isoflavones in irritable bowel syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 18-75 yrs; patients with Irritable Bowel Syndrome (IBS) according to ROME III criteria; BMI 18-25; no intestinal organic diseases; no intestinal infection; no history of chronic gastrointestinal and colorectal diseases; no intestinal major surgery; no

regular use of antibiotics, anti-constipation and anti-diarrhea, immune suppressors, metocloperamide, cisaperide, difenoxilate, opium and non-steroidal anti-inflammatory drugs; no pregnancy and lactation; not athlete or bed rest; no history of breast cancer in herself or her family; no severe psychosis Exclusion criteria: use of soy isoflavones or vitamin D one year before the study; use of soy milk or soy nuts during study; diet changes during study; use of artificial sweetener 2 days before study; no desire to complete the study; adverse effect of supplement; pregnancy during study

Age

From **18 years** old to **75 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

National Nutrition and Food Technology Institute

Street address

Nutrition Faculty of Shahid Beheshti University of Medical Sciences, No. 7, West Argavan Avenue, Shahid Farahzadi Boulevard, Qods Subcity, Tehran

City

Tehran

Postal code

Approval date

2013-11-25, 1392/09/04

Ethics committee reference number

050459

Health conditions studied

1

Description of health condition studied

Irritable Bowel Syndrome

ICD-10 code

K58

ICD-10 code description

Irritable colon

Primary outcomes

1

Description

Clinical Outcomes (pain, flatulence, diarrhea, constipation)

Timepoint

before and after the 6 weeks

Method of measurement

IBS validated Module according to ROME-III criteria

Secondary outcomes

1

Description

gut permeability

Timepoint

before and after 6 weeks

Method of measurement

The fecal serin protease

2

Description

Antioxidant status

Timepoint

before and after 6 weeks

Method of measurement

Serum total antioxidant capacity

3

Description

inflammation status

Timepoint

before and after 6 weeks

Method of measurement

Serum tumor necrosis factor-alpha

Intervention groups

1

Description

Group A receiving Supplement in form of 50000 IU cholecalciferol biweekly for 6 weeks in addition to 40 milligram placebo capsules similar to soy isoflavones including starch 2 capsules per day for 6 weeks

Category

Treatment - Drugs

2

Description

Group B receiving Supplement in form of 40 milligrams soy isoflavones (diadzein, genstein, glycerin) per day (2 capsules of 20 milligrams) for 6 weeks in addition to supplement of cholecalciferol (vitamin D3) biweekly for 6 weeks

Category

Treatment - Drugs

3**Description**

Group C receiving Placebo in similar form of cholecalciferol supplement biweekly for 6 weeks in addition to 40 milligrams placebo in similar form of soy isoflavones including starch for 6 weeks

Category

Treatment - Drugs

4**Description**

Group D receiving oral Placebo in similar form to soy isoflavones (diadzein, genstein, glycerin) supplement including starch (2 capsules per day) for 6 weeks in addition to 50000 IU cholecalciferol supplement biweekly for 6 weeks

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Gastrointestinal Clinics of Tehran University of Medical Sciences

Full name of responsible person

Mahsa Jalili

Street address

Digestive Diseases Research Institute, Tehran University of Medical Sciences, Shariati Hospital, North Kargar Avenue, Tehran

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

National Nutrition and Food Technology Institute

Full name of responsible person

Dr Fateme Mohammadi Nasr abjadi

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City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

National Nutrition and Food Technology Institute

Proportion provided by this source**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

2**Sponsor****Name of organization / entity**

Tehran University of Medical Sciences, Digestive Diseases Research Institute

Full name of responsible person

Dr. Reza Malek zadeh

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Shariati Hospital, Jalal-al ahmad Avenue, North Kargar Avenue, Tehran

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Tehran University of Medical Sciences, Digestive Diseases Research Institute

Proportion provided by this source**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**

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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