

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

The effect of zataria multiflora alcoholic extract on clinical symptoms, mediator genes of immunity, inflammatory and oxidative stress indices in patients with ulcerative colitis

Protocol summary

Study aim

Determining the effect of zataria multiflora alcoholic extract on clinical symptoms, mediator genes of immunity, inflammatory and oxidative stress indices in patients with ulcerative colitis

Design

Clinical trial with a control group, with parallel groups, double-blind, randomized, on 96 patients. Block method is used for randomization.

Settings and conduct

The research sample is people suffering from ulcerative colitis referring to Alimentary Tract Research Center of Imam Khomeini Hospital in Ahvaz. The study subjects will be randomly divided into two groups: the intervention group (receive 6 mg per kilogram of body weight per day of zataria multiflora extract for 2 months) and the control group (receive placebo for 2 months)

Participants/Inclusion and exclusion criteria

Inclusion criteria include age 18 to 65 years, BMI 18.5 to 35 kg/m², diagnosis of ulcerative colitis by a gastroenterologist. The duration of the disease should not be less than 6 months and not more than 5 years. Exclusion criteria are patients with the acute phase of the disease, the presence of autoimmune diseases and other inflammatory diseases, thyroid disease, history of gastrointestinal surgery, diabetes mellitus, pregnancy and lactation, history of allergy to thyme

Intervention groups

Zataria multiflora extract, which is prepared from the Giah Essence company (Gorgan, Iran). To prepare the placebo, 5% alcohol is dissolved in simple syrup (80% by weight by volume of sucrose). Also, the placebo color is changed to yellow with sunset color (FD&C Yellow #6). The intervention group (receiving 6 mg per kilogram of body weight per day of zataria multiflora extract for 2 months) and the control group (receiving placebo for 2 months)

Main outcome variables

Inflammatory indices including hs-CRP, IFN- γ IL-17, oxidative indices including MDA and TAC

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120415009472N27**

Registration date: **2023-08-30, 1402/06/08**

Registration timing: **prospective**

Last update: **2023-08-30, 1402/06/08**

Update count: **0**

Registration date

2023-08-30, 1402/06/08

Registrant information

Name

Naheed Aryaeian

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-09-06, 1402/06/15

Expected recruitment end date

2024-03-05, 1402/12/15

Actual recruitment start date

empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The effect of zataria multiflora alcoholic extract on clinical symptoms, mediator genes of immunity, inflammatory and oxidative stress indices in patients with ulcerative colitis

Public title
Investigating the effect of zataria multiflora in ulcerative colitis

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Body mass index 18.5 to 35 kg/m² Diagnosing ulcerative colitis by a gastroenterologist based on the Rome III Diagnostic Criteria for functional digestive disorders (flatulence, constipation and diarrhea), the Mayo score system, colonoscopy and laboratory findings Disease duration more than 6 months and less than 5 years
Exclusion criteria:
Patients with the acute phase of the disease Suffering from autoimmune diseases and other inflammatory diseases (renal, cardiovascular, liver diseases, types of cancer and acquired immunodeficiency syndrome (HIV)) Thyroid disorders History of gastrointestinal surgeries Diabetes Mellitus Pregnancy and lactation History of allergy to zataria multiflora

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

Gender
Both

Phase
N/A

Groups that have been masked

- Participant
- Data analyser

Sample size
Target sample size: **92**

Randomization (investigator's opinion)
Randomized

Randomization description
The participants will be divided into two groups by block randomization method: intervention group and control group. The randomization list is produced by a statistician in the form of random blocks with a volume of 4 and considering 2 groups A and B (zataria multiflora and placebo). Then, during packing, randomization of the packages will be done according to the list and allocated to the patients accordingly. After conducting experiments and completing the study, a random list will be given to the researcher and analysis will be done. Until the end of the data analysis, the patient and the analyst will not be informed about the type of drug and placebo, and this issue will remain confidential. In case of deviation from the protocol, the analysis method will be

used with the intention of treatment.

Blinding (investigator's opinion)
Double blinded

Blinding description
Considering that this study is double-blind in the sense that the researcher, the patient and the analyst do not know what type of dietary supplement is being taken (Zataria Multiflora supplement or placebo). To accomplish this task, the extract and placebo are packaged in similar bottles with the same information and instructions, and coded as A and B by someone other than the interventionist, so the interventionist is unaware of the capsule type. The values obtained from each group should be noted.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Iran University of Medical Sciences

Street address
Research and Technology Vice-Chancellor, Central Headquarters Building, Iran University of Medical Sciences, next to Milad Tower, Hammet Highway, Tehran

City
Tehran

Province
Tehran

Postal code
۱۴۳۹۶۱۴۵۳۵

Approval date
2023-06-13, 1402/03/23

Ethics committee reference number
IR.IUMS.REC.1402.207

Health conditions studied

1

Description of health condition studied
Patients with ulcerative colitis

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

High-Sensitivity C-Reactive Protein (hs-CRP)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

It is measured by colorimetric method and by autoanalyzer. enzyme-linked immunosorbent assay(ELISA)

2

Description

Erythrocyte sedimentation rate(ESR)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Vacuum tube erythrocyte sedimentation rate

3

Description

Interferon gamma (IFN-γ)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

It is measured by colorimetric method and by autoanalyzer. enzyme-linked immunosorbent assay(ELISA)

4

Description

Interleukin 17 (IL17)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

It is measured by colorimetric method and by autoanalyzer. enzyme-linked immunosorbent assay(ELISA)

5

Description

Total antioxidant capacity (TAC)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Chromatography

6

Description

Malondialdehyde (MDA)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Spectrophotometry

7

Description

nuclear factor kappa light chain enhancer of activated B cells (NF-κB)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Real time PCR

8

Description

T-box transcription factor (T-bet)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Real time PCR

9

Description

GATA Binding Protein 3 (GATA3)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Real time PCR

10

Description

Forkhead box P3 (FOXP3)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Real time PCR

11

Description

RAR-related orphan receptor gamma (RORγt)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Real time PCR

Secondary outcomes

1

Description

Body Mass Index(BMI)

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

Weight in kg per square meter in height in meters

2

Description

Waist circumference

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

The shortest distance around the waist, below the chest and above the navel

3

Description

Intensity of physical activity

Timepoint

Measurements at the beginning of the study (before the intervention) and 2 months after taking zataria multiflora supplement

Method of measurement

The amount of physical activity of individuals during the last 7 days in terms of metabolic equivalent

Intervention groups

1

Description

Intervention group: Patients will receive 6 mg per kilogram of body weight per day of zataria multiflora extract for a period of 2 months along with food in three times after breakfast, lunch and dinner, which are provided by "Giah Essence Phitopharm Co.".

Category

Treatment - Drugs

2

Description

Control group: Patients will receive 6 mg per kilogram of body weight per day of placebo for 2 months with food in three times after breakfast, lunch and dinner, which is prepared in the pharmacology laboratory of Ahvaz University of Medical Sciences.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Alimentary Tract Research Center, Imam Khomeini Hospital Clinical Research Development Unit, Ahvaz

Full name of responsible person

Dr. Seyed Saeed Seyedian

Street address

Alimentary Tract Research Center, 4th floor, Imam Khomeini Hospital, Azadegan Ave., Ahvaz

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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?

Yes

Title of funding source

Iran 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
Iran University of Medical Sciences
Full name of responsible person
Dr. Nahid Aryaeian
Position
Professor
Latest degree
Ph.D.
Other areas of specialty/work
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Person responsible for scientific inquiries

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be 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

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

Clinical Study Report

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

Analytic Code

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

Data Dictionary

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

Title and more details about the data/document

Unidentifiable personal data of participants; Only part of the data such as the original outcome information

When the data will become available and for how long

Access period starts 6 months after the results are published

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

Researchers working in academic and scientific institutions

From where data/document is obtainable

n-aryaeian@sina.tums.ac.ir, morvaridi.m@iums.ac.ir

What processes are involved for a request to access data/document

Document request email, applicant review, after

confirmation, documents will be provided to the applicant.

Comments