

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Investigating the effect of curcumin on the intensity of dysmenorrhea pain in endometriosis patients

Protocol summary

Study aim

Determining the effect of curcumin on the severity of dysmenorrhea pain in patients with endometriosis

Design

Clinical trial with control and intervention group, triple-blind and randomized and performed on 50 patients.

Settings and conduct

In this study, patients with endometriosis who refer to the gynecology clinic of Ghaem and Imam Reza (AS) hospitals are included in the study based on inclusion and exclusion criteria. Before starting treatment, on the first day of menstruation, the severity of dysmenorrhea pain in patients is measured using the VAS standard. Then, exactly from the same day (the first day of menstruation), the treatment for the patients starts and the patients of the intervention group are treated with curcumin for three months. In the control group, the treatment will be performed for the same period with placebo capsules. The severity of dysmenorrhea pain on the first day of each menstrual cycle during the treatment period and at the end of treatment is also assessed and compared with the pre-study amount.

Participants/Inclusion and exclusion criteria

Inclusion criteria: diagnosis of endometriosis based on ultrasound; MRI or surgery (based on persistent cyst or typical endometriosis profile); complaint of dysmenorrhea; age 15-45 years old. Exclusion criteria: treatment with GnRH agonist drugs; intention to conceive

Intervention groups

Patients are randomly divided into two groups of intervention and placebo. The intervention group receives two oral capsules of 40 mg of curcumin (Cinacurcumin, Mino Pharmaceutical Company, Tehran, Iran) for three months and from the same day (the first day of the menstrual cycle) and the control group receives two placebo capsules for three months. Patients are prescribed.

Main outcome variables

Severe dysmenorrhea pain on the first day of menstruation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201121049457N1**

Registration date: **2021-09-14, 1400/06/23**

Registration timing: **registered_while_recruiting**

Last update: **2021-09-14, 1400/06/23**

Update count: **0**

Registration date

2021-09-14, 1400/06/23

Registrant information

Name

Malihe Amirian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3802 2608

Email address

amirianm@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-11, 1400/06/20

Expected recruitment end date

2022-02-25, 1400/12/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effect of curcumin on the intensity of dysmenorrhea pain in endometriosis patients

Public title

Effect of curcumin on the intensity of dysmenorrhea pain

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Diagnosis of endometriosis based on ultrasound, MRI or surgery (based on persistent cysts or typical endometriosis profile) Complaints of dysmenorrhea Age 15-45 years old Informed written consent to participate in the study

Exclusion criteria:

Treatment with GnRH agonist drugs Intention to get pregnant

Age

From **15 years** old to **45 years** old

Gender

Female

Phase

3

Groups that have been masked

- Participant
- Investigator
- Data analyser

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly divided into two groups of intervention and placebo. The intervention group receives two oral capsules of 40 mg curcumin (Cinacurcumin, Minoo Pharmaceutical Company, Tehran, Iran) for three months and from the same day (the first day of the menstrual cycle) and the control group receives two

Blinding (investigator's opinion)

Triple blinded

Blinding description

This is a three-blind study in which the patient, the physician evaluating the outcome, and the outcome analyzer will not be aware of patient grouping. Blinding is done with the help of closed envelopes and randomization is done with the help of a random number table and the envelopes are provided to the patients by the secretary of the clinic.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Mashhad university of Medical Sciences

Street address

Central Building of Mashhad University of Medical Sciences (Ghorshi), Daneshgah 16, Daneshgah street

City

Mashhad

Province

Razavi Khorasan

Postal code

13944-91388

Approval date

2021-08-15, 1400/05/24

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1400.282

Health conditions studied**1****Description of health condition studied**

Endometriosis

ICD-10 code

N80

ICD-10 code description

Endometriosis

Primary outcomes**1****Description**

Severe dysmenorrhea pain

Timepoint

Once every seven days

Method of measurement

By 10-point visual analogue scale (VAS)

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: daily administration of two 40 mg curcumin capsules in the intervention group for three months.

Category

Treatment - Drugs

2

Description

Control group: two placebo capsules in the control group for three months and Placebo composed of nanomicels

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Mashhad educational hospital clinics

Full name of responsible person

Shima Hatami

Street address

Imam Reza Hospital, Imam Reza Hospital Square

City

Mashhad

Province

Razavi Khorasan

Postal code

9137913316

Phone

+98 51 3802 2608

Email

shima.hatami69@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Dr Mohsen Tafaghodi

Street address

Central Building of Mashhad University of Medical Sciences (Ghorshi), Daneshgah 16, Daneshgah street

City

Mashhad

Province

Razavi Khorasan

Postal code

91388-13944

Phone

+98 51 3841 2081

Email

ramresearch@mums.ac.ir

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

Yes

Title of funding source

Mashhad 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

Mashhad University of Medical Sciences

Full name of responsible person

Shima Hatami

Position

resident

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Imam Reza Hospital, Imam Reza Hospital Square

City

Mashhad

Province

Razavi Khorasan

Postal code

9137913316

Phone

+98 51 3802 2608

Email

shima.hatami69@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Malihe Amirian

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Imam Reza Hospital, Imam Reza Hospital Square

City

Mashhad

Province

Razavi Khorasan

Postal code

9137913316

Phone

+98 51 3802 2608

Email

Amirianm@mums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Shima Hatami

Position

resident

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Imam Reza Hospital, Imam Reza Hospital Square

City

Mashhad

Province

Razavi Khorasan

Postal code

9137913316

Phone

0098 38022608

Email

Shima.hatami69@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

All data can be shared after patients are made unidentifiable.

When the data will become available and for how long

Data can be accessible 6 months after results are published.

To whom data/document is available

Data can be accessible through an email to the corresponding author.

Under which criteria data/document could be used

Data will be available for researchers in universities and other scientific institutes.

From where data/document is obtainable

After sending a request email to the corresponding author, data will be sent in 1 month.

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

Carrying out analysis on data is permitted.

Comments