

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of oral use of *Mentha Longifolia* capsule on the symptoms of premenstrual syndrome and primary dysmenorrhea

#### Protocol summary

##### Study aim

Determining the effect of mint oral capsule on premenstrual syndrome and primary dysmenorrhea

##### Design

Clinical trial with control group, with parallel groups, three-way blind, randomized, phase 3 on 64 patients. PASS software will be used for randomization.

##### Settings and conduct

Sampling will be done in the dormitories of Mashhad University of Medical Sciences. Both intervention and control groups are monitored for 2 months for definitive diagnosis of dysmenorrhea and PMS. Then, 7 days before the onset of menstruation until the first 3 days of menstruation, they will receive one 750 mg capsule daily for two cycles, which before and three hours after taking the drug, the pain intensity using the pain visual scale and Pain duration will be recorded using the Cox scale. Symptoms of PMS will be measured by the premenstrual calendar form. the symptoms of PMS and the severity and duration of dysmenorrhea before, one and two months after the intervention will be compared with the control group.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: being Iranian and single, living in the dormitories of Mashhad University of Medical Sciences, regular menstruation, age 18-35 years, having PMS and dysmenorrhea at the same time, no specific disease, no medication, no Allergy to mint. Withdrawal conditions: Discontinuation or irregular use of medication, BMI greater than 30, Depression, Severe stress and anxiety, Experience of an unfortunate or stressful accident while studying

##### Intervention groups

The intervention group was treated with mint capsule, each capsule containing 750 mg of mint extract, 1 dose daily from 7 days before menstruation to the first three days of menstruation for 2 months. Control group during this period will receive the placebo capsule at the same conditions.

##### Main outcome variables

The mean total score of PMS symptoms: the severity and duration of dysmenorrhea.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210630051749N1**

Registration date: **2021-07-05, 1400/04/14**

Registration timing: **prospective**

Last update: **2021-07-05, 1400/04/14**

Update count: **0**

##### Registration date

2021-07-05, 1400/04/14

##### Registrant information

##### Name

Mahsa Houra

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 51 3859 1511

##### Email address

houram982@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-07-11, 1400/04/20

##### Expected recruitment end date

2022-01-10, 1400/10/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**  
empty

**Scientific title**  
The effect of oral use of Mentha Longifolia capsule on the symptoms of premenstrual syndrome and primary dysmenorrhea

**Public title**  
The effect of oral use of Mentha Longifolia capsule on the symptoms of premenstrual and the severity and duration of menstrual pain

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Be Iranian and single. Be a resident of the dormitories of Mashhad University of Medical Sciences. Have regular menstruation Have premenstrual syndrome and primary dysmenorrhea at the same time. Be 18-35 years old. No medication No allergies to mint No alcohol or drugs or tobacco No diet No disease  
**Exclusion criteria:**  
Discontinuation of medication or irregular use of medication (not taking medication twice or more) Have a BMI of more than 30. Be a professional athlete. Suffer from depression, stress and anxiety . Experience an unfortunate or stressful event while studying. Has used traditional medicine methods to reduce symptoms and improve pain. Married while studying.

**Age**  
From **18 years** old to **35 years** old

**Gender**  
Female

**Phase**  
3

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

**Sample size**  
Target sample size: **64**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
The research units are easily selected and divided into two groups receiving mint capsules and placebo by random allocation of block type and using PASS software. The drug concealment method is coded in the same package in terms of shape and design.

**Blinding (investigator's opinion)**  
Triple blinded

**Blinding description**  
Researchers, participants, and the Data Safety and Supervision Committee will keep blind in this study. They will have no information about the attribution of individuals to groups.

**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

Khorasan Razavi, Mashhad, Daneshgah St., Ph.D. Crossroads, Ibn Sina St., School of Nursing and Midwifery

##### City

مشهد

##### Province

Razavi Khorasan

##### Postal code

9137913199

#### Approval date

2021-06-30, 1400/04/09

#### Ethics committee reference number

IR.MUMS.NURSE.REC.1400.029

## Health conditions studied

### 1

#### Description of health condition studied

primary dysmenorrhea

#### ICD-10 code

N94.4

#### ICD-10 code description

Primary Dysmenorrhea

### 2

#### Description of health condition studied

Premenstrual syndrome

#### ICD-10 code

R10.3

#### ICD-10 code description

Pain localized to other parts of lower abdomen

## Primary outcomes

### 1

#### Description

Mean score of total premenstrual syndrome symptoms, severity and duration of dysmenorrhea

#### Timepoint

Mean score of total symptoms of premenstrual

syndrome, severity and duration of dysmenorrhea at the beginning of the study (before the intervention) and 1 and 2 months after the intervention

#### Method of measurement

The mean total score of premenstrual syndrome symptoms will be assessed by COPE premenstrual events calendar form and the severity and duration of dysmenorrhea in the first and second months of the treatment cycle, by visual pain scale and COX scale and by patients' self-report.

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: In the intervention group, mint oral capsule will be used once a day from 7 days before the start of menstruation until the first 3 days of menstruation.

#### Category

Treatment - Drugs

### 2

#### Description

Control group: In the control group, mint oral capsule will be used once a day from 7 days before the start of menstruation until the first 3 days of menstruation.

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Mashhad University Medical Sciences\_Baharestan  
enghelab Dormitory

##### Full name of responsible person

Zolfaghar Yaghoubi

##### Street address

Mashhad, Vakilabad Boulevard, Bahonar St., Medical  
Sciences Dormitory

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##### Postal code

9177948959

##### Phone

+98 51 3882 8299

##### Email

YaghoubiFZ1@mums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Full name of responsible person

Dr. Mohsen Tafaghodi

##### Street address

Razavi Khorasan Province, Mashhad, Daneshgah  
Avenue

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##### Province

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+98 51 3859 1511

##### Email

Tafaghodim@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

Samira Ebrahimzadehzagami

##### Position

Assistant Professor

##### Latest degree

Ph.D.

##### Other areas of specialty/work

Midwifery

##### Street address

Razavi Khorasan Province, Mashhad, Daneshgah  
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## Person responsible for scientific inquiries

**Contact**

**Name of organization / entity**

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**Full name of responsible person**

Samira Ebrahimzadehzagami

**Position**

Assistant Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Midwifery

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## Person responsible for updating data

**Contact**

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Mahsa Houra

**Position**

Master student of midwifery

**Latest degree**

Bachelor

**Other areas of specialty/work**

Midwifery

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**Email**

Houram982@mums.ac.ir

## 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**

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