

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Evaluation effectiveness of topical ginger oil pad in dysmenorrhea: Triple blind-placebo-controlled Randomized Clinical Trial

#### Protocol summary

##### Study aim

Evaluation of the effectiveness of topical ginger oil pad in dysmenorrhea

##### Design

Triple-blind randomized clinical trial, with control group, parallel, phase 3 on 30 patients, Permuted Block Randomization method

##### Settings and conduct

The location of the project will be Ahmadih Health Center affiliated with the Faculty of Persian Medicine of Tehran University of Medical Sciences. After finding eligible cases, and taking a written consent form, all participants will be assigned to two study groups, intervention, and control, using a random allocation method. In the following, similar pockets containing the pad will be given to each group. Researchers, volunteers, outcome assessors, and statistical data analysts do not have any information about drugs and placebo groups

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 15 to 45 years old, BMI(body mass index) $\leq 35$ , regular menstruation at intervals of 21 to 35 days and regular bleeding for 3 to 10 days at least in the last 3 months, moderate and severe dysmenorrhea:

Exclusion criteria: Pregnancy, history of secondary dysmenorrhea, history of abdominal or pelvic surgery, taking other medications, history of skin allergies to ginger

##### Intervention groups

Intervention group: Receive 3 pads containing ginger oil in each menstrual cycle (2 cycles), change the pad every 48 hours, place the pad under the umbilicus and above the pubic area, take one mefenamic acid capsule if they have pain no later than one hour after Use the pad.

control group: Receive 3 placebo pads in each menstrual cycle (2 cycles), change the pad every 48 hours, place the pad under the umbilicus and above the pubic area, take one mefenamic acid capsule if they have pain at most one hour after using the pad.

##### Main outcome variables

pain intensity: pain duration: Patient satisfaction with treatment: Physician satisfaction with treatment

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20201010048979N3**

Registration date: **2022-05-06, 1401/02/16**

Registration timing: **prospective**

Last update: **2022-05-06, 1401/02/16**

Update count: **0**

##### Registration date

2022-05-06, 1401/02/16

##### Registrant information

##### Name

Marzieh Akhbari

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 8899 3656

##### Email address

akhbari-m@razi.tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-05-22, 1401/03/01

##### Expected recruitment end date

2022-11-22, 1401/09/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**

empty

**Scientific title**

Evaluation effectiveness of topical ginger oil pad in dysmenorrhea: Triple blind-placebo-controlled Randomized Clinical Trial

**Public title**

The effect of topical pads containing ginger oil on dysmenorrhea

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Women aged 15 to 45 years old BMI(body mass index)≤35 Regular menstruation at intervals of 21 to 35 days and regular bleeding for 3 to 10 days at least in the last 3 months Moderate and severe dysmenorrhea (based on Multidimensional Verbal Scoring System )

**Exclusion criteria:**

Pregnancy History of secondary dysmenorrhea History of abdominal or pelvic surgery Taking other medications History of skin allergies to ginger

**Age**

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

**Gender**

Female

**Phase**

3

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

**Sample size**

Target sample size: **30**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

The study subjects are assigned to one of the intervention and control groups by Permuted Block Randomization method by random sampling method from one of the numbers 1 to 6 using SPSS software. Numbers 1 to 6 are specific codes of each sequence BBAA, AABB, ABAB, BABA ABBA, BAAB. according on selected sequence, each group of four-subject receives one of the intervention and control methods.

**Blinding (investigator's opinion)**

Triple blinded

**Blinding description**

The medicine and placebo group will receive similar pads in shape and size and in the same packages labeled with codes A and B. The patient and the researcher prescribing the drug and analyzing the data are not aware of the meaning of the codes. The results of the study are reviewed by a researcher who is not aware of the grouping and is blind to the groups and the type of drug.

**Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

Ethics committee of Tehran University of Medical Sciences

**Street address**

1th Floor, Medicine School, Poursina St, Qods St, Enghelab St.

**City**

Tehran

**Province**

Tehran

**Postal code**

1417613151

**Approval date**

2022-03-16, 1400/12/25

**Ethics committee reference number**

IR.TUMS.MEDICINE.REC.1400.1514

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

Primary dysmenorrhea

**ICD-10 code**

N94.4

**ICD-10 code description**

Primary dysmenorrhea

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

pain intensity

**Timepoint**

cycle before intervention, every cycles during intervention (2 cycles)

**Method of measurement**

VAS (visual analog scale)

**2****Description**

pain duration

**Timepoint**

cycle before intervention, every cycles during intervention (2 cycles)

**Method of measurement**

hour

### 3

#### **Description**

Patient satisfaction with treatment

#### **Timepoint**

every cycles during intervention (2 cycles)

#### **Method of measurement**

questionnaire

### 4

#### **Description**

Physician satisfaction with treatment

#### **Timepoint**

every cycles during intervention (2 cycles)

#### **Method of measurement**

questionnaire

## **Secondary outcomes**

### 1

#### **Description**

drug side effects

#### **Timepoint**

every cycle during the intervention (2 cycles)

#### **Method of measurement**

questionnaire

### 2

#### **Description**

Mefenamic acid consumption

#### **Timepoint**

cycle before intervention, every cycles during intervention (2 cycles)

#### **Method of measurement**

number

## **Intervention groups**

### 1

#### **Description**

Intervention group: Each eligible patient will receive three topical pads containing ginger oil in each two menstrual cycles and a new pad will be replaced every 48 hours. the pad will be located on the abdomen under umbilicus and above the pubic area. If They have pain for a maximum of one hour after using the pad, they can take one mefenamic acid capsule. The number of capsules allowed per day is 2 and the number of capsules consumed is recorded per cycle.

#### **Category**

Treatment - Drugs

### 2

#### **Description**

Control group: Each eligible patient will receive three

placebo pads in each two menstrual cycles and a new pad will be replaced every 48 hours. the pad will be located on the abdomen under umbilicus and above the pubic area. If They have pain for a maximum of one hour after using the pad, they can take one mefenamic acid capsule. The number of capsules allowed per day is 2 and the number of capsules consumed is recorded in per cycle.

#### **Category**

Placebo

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

Ahmadiéh Persian Medicine Health Center in Tehran  
University of Medical Sciences

##### **Full name of responsible person**

Leila Shirbeigi

##### **Street address**

No. 27, Tbriz Line, North Sarparast Ave., Taleghani Ave.

##### **City**

Tehran

##### **Province**

Tehran

##### **Postal code**

1417653761

##### **Phone**

+98 21 8899 3656

##### **Email**

l.shirbeigi@yahoo.com

## **Sponsors / Funding sources**

### 1

#### **Sponsor**

##### **Name of organization / entity**

Tehran University of Medical Sciences

##### **Full name of responsible person**

Akbar Fotouhi

##### **Street address**

Sixth Floor, Vice Chancellor for Research and Technology, Ghods Ave., Keshavarz Blvd.

##### **City**

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Tehran

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1417653761

##### **Phone**

+98 21 8163 3698

##### **Email**

vcr@tums.ac.ir

#### **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

**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**

Tehran University of Medical Sciences

**Full name of responsible person**

Leila Shirbeigi

**Position**

Assistant Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Traditional Medicine

**Street address**No.27, School of Traditional Medicine, Sarparast St.,  
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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Leila Shirbeigi

**Position**

Assistant Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Traditional Medicine

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l.shirbeigi@yahoo.com

**Person responsible for updating data****Contact****Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Marzieh Akhbari

**Position**

Student

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Traditional Medicine

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**Email**

mentalhealth8981@gmail.com

**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