

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effect of aromatherapy with rosa damascena, lavender and citrus aurantium essential oils on the severity of premenstrual syndrome symptoms in married women

Protocol summary

Study aim

Determining the effect of aromatherapy with essential oils of rosa damascena , lavender and citrus aurantium on the severity of symptoms of premenstrual syndrome in married women of Gonabad city - 1401

Design

The clinical trial has four parallel intervention and control groups, one blind with a sample size of 128 people who will be allocated in four groups by random stratified sampling.

Settings and conduct

After determining the students with premenstrual syndrome, the intervention groups dripped 10 drops of the delivered essential oil on a piece of cotton every day, 2 times a day, from 7 days before the start of menstruation until the fourth day of bleeding. They inhale from a distance of 10 cm from the nose for 5 minutes. The control group received odorless sweet almond oil like the intervention groups. This is done for two cycles and the PSSST questionnaire is completed at the end of each cycle.

Participants/Inclusion and exclusion criteria

Willingness to participate in the study, age range 18-35 years, no medical and mental illnesses and disorders related to the reproductive system, menstrual cycles of 21-35 days with a duration of 4 - 8 days, suffering from moderate or severe premenstrual syndrome, not having a disorder in the olfactory system , lack of sensitivity to the essential oils used in the study.

Intervention groups

group 1: improvement of symptoms of premenstrual syndrome with 30% pure rosa damascena essential oil.
group 2: Improvement of premenstrual syndrome symptoms with 30% pure lavender essential oil. group 3: Improvement of symptoms of premenstrual syndrome with pure 30% citrus aurantium essential oil. Control group: improvement of premenstrual syndrome

symptoms with odorless sweet almond oil

Main outcome variables

Symptoms of premenstrual syndrome

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230502058052N1**

Registration date: **2023-05-08, 1402/02/18**

Registration timing: **prospective**

Last update: **2023-05-08, 1402/02/18**

Update count: **0**

Registration date

2023-05-08, 1402/02/18

Registrant information

Name

Mahsa Rastegar

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 991 173 9624

Email address

maahsaa.rastegarr@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-06-04, 1402/03/14

Expected recruitment end date

2024-01-04, 1402/10/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of aromatherapy with rosa damascena, lavender and citrus aurantium essential oils on the severity of premenstrual syndrome symptoms in married women

Public title

Comparison of the effect of aromatherapy with rosa damascena, lavender and citrus aurantium essential oils on the severity of premenstrual syndrome symptoms

Purpose

Supportive

Inclusion/Exclusion criteria**Inclusion criteria:**

Willingness to participate in the study Age range from 18 to 35 years Normal body mass index No smoking and drugs Absence of medical diseases and disorders related to the reproductive system based on the person's statements Not suffering from psychiatric diseases, anxiety disorders, depression and stress based on the person's statements Menstrual cycles of 21-35 days with a duration of 4-8 days Having moderate or severe premenstrual syndrome based on the PSST questionnaire Not using drugs or supplements effective on premenstrual syndrome from 2 months before the start of the study Not doing sports professionally No stressful event in the last 6 months No disorder in the olfactory system based on the person's statements

Exclusion criteria:

Unwillingness to continue cooperation Changes in the intervals of menstrual cycles (less than 21 days and more than 35 days) and the number of menstrual days (less than 4 days and more than 8 days) Taking drugs and supplements effective on premenstrual syndrome Allergy to the essential oils used in the study

Age

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

Gender

Female

Phase

3

Groups that have been masked

- Participant

Sample size

Target sample size: **128**

Randomization (investigator's opinion)

Randomized

Randomization description

The random allocation of samples to each of the studied groups will be determined using 4 and 8 variable blocks and a computer program. Sealed sealed envelopes will be numbered sequentially and used to conceal the allocation.

Blinding (investigator's opinion)

Single blinded

Blinding description

Essential oils and placebo in identical bottles in terms of packaging shape and color; and are coded with A, B, C and D codes; And the study will be blinded in terms of research units.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics Committee of Gonabad University of Medical Sciences

Street address

On the side of Asian Road, Gonabad University of Medical Sciences

City

Gonabad

Province

Razavi Khorasan

Postal code

9691793718

Approval date

2022-12-30, 1401/10/09

Ethics committee reference number

IR.GMU.REC.1402.009

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

Premenstrual Syndrome

ICD-10 code

N94.3

ICD-10 code description

Premenstrual tension syndrome

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

Symptoms of premenstrual syndrome

Timepoint

before the start of the intervention and during the intervention in two menstrual cycles

Method of measurement

Premenstrual syndrome symptoms screening questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: From 7 days before menstruation to the fourth day of menstrual bleeding, for two cycles, every day, 2 times a day, 10 drops of 30% rosa damascena essential oil were dripped on a piece of cotton and from a distance of 10 cm from the nose for 5 minutes with they inhale normally.

Category

Treatment - Drugs

2

Description

Intervention group: From 7 days before menstruation to the fourth day of menstrual bleeding, for two cycles, every day, 2 times a day, 10 drops of 30% lavender essential oil were dripped on a piece of cotton and from a distance of 10 cm from the nose for 5 minutes with they inhale normally.

Category

Treatment - Drugs

3

Description

Intervention group: From 7 days before menstruation to the fourth day of menstrual bleeding, for two cycles, every day, 2 times a day, 10 drops of 30% citrus aurantium essential oil were dripped on a piece of cotton and from a distance of 10 cm from the nose for 5 minutes with they inhale normally.

Category

Treatment - Drugs

4

Description

control group: From 7 days before menstruation to the fourth day of menstrual bleeding, for two cycles, every day, 2 times a day, drip 10 drops of odorless sweet almond oil on a piece of cotton and hold it from a distance of 10 cm from the nose for 5 minutes with they inhale normally

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Comprehensive health service centers of Gonabad city

Full name of responsible person

Mahsa Rastegar

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Email

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Gonabad University of Medical Sciences

Full name of responsible person

Fariba Askari

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faribaaskari10@yahoo.com

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Gonabad University of Medical Sciences

Proportion provided by this source

30

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

Gonabad University of Medical Sciences

Full name of responsible person

Mahsa Rastegar

Position

MSc student

Latest degree

Bachelor

Other areas of specialty/work

Midwifery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Gonabad University of Medical Sciences

Full name of responsible person

Mahsa Rastegar

Position

MSc student

Latest degree

Bachelor

Other areas of specialty/work

Midwifery

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Person responsible for updating data

Contact

Name of organization / entity

Gonabad University of Medical Sciences

Full name of responsible person

Mahsa Rastegar

Position

MSc student

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

The participants are coded to increase access to them and their information, but at the time of publication, only the main result is published and the information of the participants is not published in any way.

When the data will become available and for how long

6 months after the results are published

To whom data/document is available

Access is open to the public

Under which criteria data/document could be used

If people have a request, without mentioning the coding of the information confidentially, without the personal information of the people, only the main and side results will be provided to the requester.

From where data/document is obtainable

E-mail

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

First, the applicant sends a message to the e-mail and explains the reason for using the data, and within a week, information with conditions and restrictions will be sent to the applicant.

Comments