

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Effect of Of fennel capsule and evening primrose oil on the symptoms of menopause and sex hormones in postmenopausal women who referred to clinics of Shiraz University of Medical Sciences

Protocol summary

Study aim

Effect of fennel capsule and evening primrose oil on the symptoms of menopause and sex hormones in postmenopausal women

Design

Clinical trial with control group, simple sampling and sample size 150, blind, randomized

Settings and conduct

The study population is all postmenopausal women aged 45-60 years referred to the clinics of Shiraz University of Medical Sciences and sampling will be done in an easy method based on purpose based on inclusion criteria and then divided into two intervention groups and a control group with a table of random numbers. It is going to happen. For people who have the criteria to enter the research and want to participate in the research, the questionnaire of demographic characteristics, the criterion of menopause will be completed and the research samples will be divided into two groups based on a random number table and a control group of 50 people. In this way, the intervention groups will take placebo capsules containing fennel and evening primrose oil and the control group will take placebo capsules. The contents of capsules A, B and C will be preserved for unknown samples and clinical caregivers, so the present study will be double-blind.

Participants/Inclusion and exclusion criteria

Entry requirements: 1-Failure to receive HRT 2- Not getting breast cancer treatment (hormone therapy) 3- Lack of surgery in ovarian tumors Non-arrival conditions: 1- Sudden increase or decrease of weight in the sample 2- Any reason that increases or decreases the level of estrogen in the body 3- For any reason, a person has to have hormone therapy 4- Any sign indicating that allergy to fennel and evening primrose oil has manifested itself 5- Examples that can cause menstrual disorder for any reason

Intervention groups

The intervention groups use fennel capsules and evening primrose oil and a control group of placebo capsules

Main outcome variables

Menopause symptoms

General information

Reason for update

At the time of the project, the conditions for using another herbal medicine, namely evening primrose oil, were available, so a trial was conducted in three groups.

Acronym

IRCT registration information

IRCT registration number: **IRCT20160404027207N2**

Registration date: **2018-04-24, 1397/02/04**

Registration timing: **prospective**

Last update: **2022-05-30, 1401/03/09**

Update count: **1**

Registration date

2018-04-24, 1397/02/04

Registrant information

Name

Fatemeh Ghavi

Name of organization / entity

Jahrom University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71543404059

Email address

ghavi.fatemeh@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-05-02, 1399/02/13

Expected recruitment end date

2020-11-18, 1399/08/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Of fennel capsule and evening primrose oil on the symptoms of menopause and sex hormones in postmenopausal women who referred to clinics of Shiraz University of Medical Sciences

Public title

Effect of Of fennel capsule and evening primrose oil on the symptoms of menopause and sex hormones in postmenopausal women

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Lack of surgery in ovarian tumors Not getting breast cancer treatment (hormone therapy) Failure to receive HRT Women aged 45 to 60 years

Exclusion criteria:

Sudden increase or decrease of weight in the sample Any reason that increases or decreases the level of estrogen in the body For any reason, a person has to have hormone therapy Any sign indicating that allergy to fennel and evening primrose oil has manifested itself Examples that can cause menstrual disorder for any reason

Age

From **45 years** old to **60 years** old

Gender

Female

Phase

3

Groups that have been masked

- Participant
- Care provider
- Outcome assessor

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

Randomized

Randomization description

Sampling was performed by easy method based on purpose based on inclusion criteria and then divided into two groups of intervention and a control group using a table of random numbers.

Blinding (investigator's opinion)

Double blinded

Blinding description

The intervention groups use capsules containing fennel and evening primrose oil and the control group used

placebo capsules. All capsules will be in similar packages with codes A, B and C. The contents of capsules A, B, and C will be preserved for unknown samples and clinical caregivers. Therefore, the present study will be two blinds.

Placebo

Used

Assignment

Other

Other design features**Secondary Ids**

empty

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

Shiraz university of medical sciences

Street address

Faculty of Nursing and Midwifery Shiraz., Namazi Sqaure

City

shiraz

Province

Fars

Postal code

71944

Approval date

2017-12-09, 1396/09/18

Ethics committee reference number

IR. SUMS. REC. 1396. 136

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

Menopausal and female climacteric states

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Menopause symptoms

Timepoint

Before intervention, two months after the intervention

Method of measurement

Hormones, SF36 General Measurement of Quality of Life, MRS A tool for assessing the severity of postmenopausal women's symptoms

Secondary outcomes

1

Description

Hormonal changes

Timepoint

Before intervention, two months after the intervention

Method of measurement

Elisa Methode

2

Description

Evaluation of the quality of life of postmenopausal women

Timepoint

Before intervention, two months after the intervention

Method of measurement

A general tool for assessing the quality of life SF36

3

Description

Evaluation of severity of symptoms of postmenopausal women

Timepoint

Before intervention, two months after the intervention

Method of measurement

A special tool for assessing the severity of symptoms of postmenopausal women MRS

Intervention groups

1

Description

Intervention groups one: The first group of 30 mg capsules of fennel extract for two months and orally twice a day.

Category

Prevention

2

Description

Intervention group two: 1000 mg capsules of evening primrose oil for two months and orally twice a day.

Category

Prevention

3

Description

Control group: Oral capsules of 100 mg placebo for 2 months twice a day.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Shiraz University of Medical Sciences clinics

Full name of responsible person

Ghavi Fatemeh

Street address

Faculty of Nursing and Midwifery., Namazi Square

City

Shiraz

Province

Fars

Postal code

71944

Phone

+98 71 3647 4254

Fax

+98 71 3647 4252

Email

ghavi.fatemeh@yahoo.com

Sponsors / Funding sources

1

Sponsor**Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

Dr Janghorban Roxana

Street address

Shiraz University of Medical Sciences, Setad Blvd., Shiraz

City

Shiraz

Province

Fars

Postal code

71944

Phone

+98 71 3230 5410

Fax

+98 71 3647 4252

Email

researchnu@sums.ac.ir

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

Yes

Title of funding source

Shiraz 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

Shiraz University of Medical Sciences

Full name of responsible person

Ghavi Fatemeh

Position

Instructor of Faculty Member of Nursing and
Midwifery School

Latest degree

Master

Other areas of specialty/work

Midwifery

Street address

Faculty of Nursing and Midwifery., Namazi Square

City

Shiraz

Province

Fars

Postal code

7414846199

Phone

+98 71 3734 0106

Email

ghavi.fatemeh@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Ghavi Fatemeh

Position

Instructor of Faculty Member of Nursing and
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Person responsible for updating data

Contact

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ghavi.fateameh@yahoo.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

Not applicable

Informed Consent Form

No - There is not 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

Not applicable

Data Dictionary

Not applicable