

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparing the effect of Oral Contraceptive LD and Vitex on improvement clinical and paraclinical parameters of Polycystic ovarian syndrome (PCOS): a double blind randomized controlled clinical trial

Protocol summary

Registration timing: **registered_while_recruiting**

Summary

The aim of this randomized controlled trial (double blind) is comparing the effect of Oral Contraceptive LD and Vitex on improving clinical and para-clinical parameters of Polycystic ovarian syndrome (PCOS). 80 women aged 18 to 45 years old with PCOS will be recruited in the study. This study will be conducted at Alzahara hospital and Clinics affiliated to Tabriz University of Medical Sciences. Eligible women will be selected through convenience sampling and will be randomly assigned into 2 groups involving 40 subjects using permuted block randomization with allocation ratio of 1:1. A person from research team not involved in the recruitment and assigning participants will generate allocation sequence using a computerized program. Opaque sealed sequentially numbered envelopes will be used for allocation concealment. Intervention group will receive Vitex agnus tablet two pills daily for three cycles of 28 days and control group will receive LD tablet one pill daily for first 21 days of each cycle through three cycles of 28 days. The last seven tablets in LD group contain placebo. Main outcome measure is menstrual cycle length which will be evaluated by calendar one , two, and three months after the intervention. Secondary outcomes include Serum levels of dehydroepiandrosterone sulfate, free testosterone and prolactin that will be assessed by Enzyme-linked immunosorbent assay (ELISA) before the intervention and three months after intervention. The researcher and the participants will be blind.

Last update:

Update count: **0**

Registration date

2014-03-02, 1392/12/11

Registrant information

Name

Mahnaz Shahnazi

Name of organization / entity

Tabriz University of Medical Science

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Recruitment status

Recruitment complete

Funding source

Research deputy of Tabriz university of medical sciences

Expected recruitment start date

2014-01-10, 1392/10/20

Expected recruitment end date

2014-06-30, 1393/04/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of Oral Contraceptive LD and Vitex on improvement clinical and paraclinical parameters of Polycystic ovarian syndrome (PCOS): a double blind

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201306116709N13**

Registration date: **2014-03-02, 1392/12/11**

randomized controlled clinical trial

Public title

Comparing the effect of Oral Contraceptive LD and Vitex to treat Polycystic ovarian syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: oligomenorrhea or amenorrhea (menstrual intervals longer than 35 days or no menstruation in the last three months); polycystic ovarian confirmed by ultrasound; age 45-18 years; willingness to participate in the study; Body mass index between 18 and 35. Exclusion criteria: having other androgenic disorders such as adrenal hyperplasia or androgen-producing tumors; contraindications of oral contraceptive LD including: smokers over 35 years, active liver diseases, systolic blood pressure equal to or above 140 mm Hg and diastolic equal to or above 90 mm Hg, diabetes for more than 20 years, gallbladder diseases, history of stroke, blood clots in the legs or lungs, heart attack and other cardiovascular problems, breast cancer, migraine with aura,...; thyroid diseases; cushing's syndrome; currently taking oral contraceptives or other hormonal treatments; pregnancy; breastfeeding; history of surgery on one or both ovaries; taking dopamine antagonist drugs such Thioridazine, Promazine, Metoclopramide, Hydroxyzine, etc

Age

From **18 years** old to **45 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz university of Medical Sciences

Street address

Golgasht Street, Tabriz

City

Tabriz

Postal code

118-51665

Approval date

2013-12-09, 1392/09/18

Ethics committee reference number

92151

Health conditions studied

1

Description of health condition studied

polycystic ovarian syndrome

ICD-10 code

E28.2

ICD-10 code description

Sclerocystic ovary syndrome Stein-Leventhal syndrome

Primary outcomes

1

Description

Menstrual cycle length

Timepoint

One month, two months, three months after the intervention

Method of measurement

Calendar

Secondary outcomes

1

Description

Serum Dehydroepiandrosterone sulfate level

Timepoint

Before the intervention and three months after intervention

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

2

Description

Serum free testosterone level

Timepoint

Before the intervention and three months after intervention

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

3

Description

Serum prolactin levels

Timepoint

Before the intervention and three months after

intervention

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

Intervention groups

1

Description

Intervention group: Vitex agnus tablet, containing standardized pure extract of Vitex agnus fruits with 2.1 to 3.3 mg acubin, two pills daily for three cycles of 28 days .

Category

Treatment - Drugs

2

Description

Control group: LD tablet, containing 30 mcg ethinyl estradiol and 150 mcg levonorgestrel, one pill daily for first 21 days of each cycle through three cycles of 28 days. The last seven tablets in LD group contain placebo.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Teaching Hospital

Full name of responsible person

Parvaneh Ghahremani nasab, Master of sciences student in midwifery

Street address

Baghshomal square, Tabriz

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research deputy of Tabriz University of Medical Sciences

Full name of responsible person

Dr mohammadreza Rashidi

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Golgasht Street, Tabriz

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research deputy of Tabriz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Parvaneh Ghahremani nasab

Position

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty