

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

Evaluation of efficacy of vaginal progesterone on pregnancy rate in women with polycystic ovarian syndrome using combination therapies for ovulation induction

Protocol summary

Summary

The aim of this study is evaluation of vaginal progesterone effect on pregnancy rate in infertile women with polycystic ovary syndrome. The single-center clinical trial study will be performed on 200 infertile patients with inclusion criteria that referred to Kashan infertility center in 2012. Inclusion criteria consist 20 -35 years, having Rotterdam criteria (having 2 from 3 following criteria: Oligomenorrhea or amenorrhea, polycystic ovaries in sonography, clinical or biochemical evidences of hyperandrogenism). The patient with abnormal hormonal assay in the third day of menstruation (including FSH, TSH, prolactin, 17 Hydroxy progesterone and testosterone), tubal obstruction in HSG or laparoscopy and infertility due to male factor will be excluded. Patients will receive letrozole (5 mg) or clomiphene (100 mg) daily during 3-7 days of menstruation. Then, gonadotropin(150 IU) daily will be taken from 5-9 days of cycle. Control sonography for evaluation of ovarian response and endometrial thickness will be done on 10th or 11th day of cycle and gonadotropin dose will be adjusted. If there are at least one dominant follicle with 18-20 mm and endometrial thickness is 6-8 mm in sonography, HCG ampoule (5000 IU) intramuscular will be injected. Then, patients randomly assigned to case and control groups. Case group, will be received vaginal progesterone suppository (400 mg) daily for 14 days and control group will not receive progesterone. On last day of receiving progesterone in case group, pregnancy test will be done in two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201206072967N4**

Registration date: **2012-10-07, 1391/07/16**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-10-07, 1391/07/16

Registrant information

Name

Fatemeh Foroozanfar

Name of organization / entity

Kashan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 36 1446 0180

Email address

foroozanfar_f@kaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor of research, Kashan University of Medical Sciences

Expected recruitment start date

2012-07-22, 1391/05/01

Expected recruitment end date

2013-02-18, 1391/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of efficacy of vaginal progesterone on

pregnancy rate in women with polycystic ovarian syndrome using combination therapies for ovulation induction

Public title

Vaginal Progesterone effect on pregnancy rate in infertility women with polycystic ovarian syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria consist 20 -35 years, having Rotterdam criteria (having 2 from 3 following criteria: Oligomenorrhea or amenorrhea, polycystic ovaries in sonography, clinical or biochemical evidences of hyperandrogenism). The patient with abnormal hormonal assay in the third day of menstruation (including FSH, TSH, prolactin, 17 Hydroxy progesterone and testosterone), tubal obstruction in HSG or laparoscopy and infertility due to male factor will be excluded.

Age

From **20 years** old to **35 years** old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

In this study, randomization is done based on randomized numbers.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kashan University of Medical Sciences

Street address

Ghotbe Ravandi Blvd , Pezeshk Blvd

City

Kashan

Postal code

Approval date

2010-01-20, 1388/10/30

Ethics committee reference number

4366.1.5.29.P

Health conditions studied

1

Description of health condition studied

Infertility and Polycystic Ovarian Syndrome

ICD-10 code

E28.2

ICD-10 code description

Polycystic ovarian syndrome

Primary outcomes

1

Description

Pregnancy

Timepoint

Last day of receiving progesterone suppository

Method of measurement

Blood test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: letrozole (Femara; Novartis Pharma AG, Switzerland) 5 mg daily during 3-7 days of menstruation and then, 150 IU gonadotropin (Merional, IBSA, Switzerland) daily will be given from 5-9 days of cycle. After day 10 of the menstrual cycle , If there are at least one dominant follicle with 18-20 mm and endometrial thickness is 6-8 mm in sonography, 5000 IU of HCG ampoule (Choriomon, IBSA, Switzerland), intramuscular will be injected. Then, vaginal progesterone suppository (Cyclogest, serano, Istanbul, Turkey) 400 mg daily.will be given for two weeks.

Category

Treatment - Drugs

2

Description

Intervention group 2: clomiphene (100 mg, daily) during 3-7 days of menstruation and then, 150 IU gonadotropin (Merional, IBSA, Switzerland) daily will be given from 5-9 days of cycle. After day 10 of the menstrual cycle , If there are at least one dominant follicle with 18-20 mm and endometrial thickness is 6-8 mm in sonography, 5000 IU of HCG ampoule (Choriomon, IBSA, Switzerland), intramuscular will be injected. Then, vaginal progesterone suppository (Cyclogest, serano, Istanbul, Turkey) 400 mg daily.will be given for two weeks.

Category

3**Description**

Control group 1: letrozole (Femara; Novartis Pharma AG, Switzerland) 5 mg daily during 3-7 days of menstruation and then, 150 IU gonadotropin (Merional, IBSA, Switzerland) daily will be given from 5-9 days of cycle. After day 10 of the menstrual cycle, If there are at least one dominant follicle with 18-20 mm and endometrial thickness is 6-8 mm in sonography, 5000 IU of HCG ampoule (Choriomon, IBSA, Switzerland), intramuscular will be injected.

Category

Treatment - Drugs

4**Description**

Control group 2: clomiphene (100 mg, daily) during 3-7 days of menstruation and then, 150 IU gonadotropin (Merional, IBSA, Switzerland) daily will be given from 5-9 days of cycle. After day 10 of the menstrual cycle, If there are at least one dominant follicle with 18-20 mm and endometrial thickness is 6-8 mm in sonography, 5000 IU of HCG ampoule (Choriomon, IBSA, Switzerland), intramuscular will be injected.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Infertility Center of Shahid Beheshti Hospital

Full name of responsible person

Dr.Fatemeh Foroozanfard

Street address

Shahid Beheshti Hospital, Parastar Blvd, Ghotbe Ravandi Blvd, Kashan

City

Kashan

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor of research, Kashan University of Medical Sciences

Full name of responsible person

Dr.Gholam Ali Hamidi

Street address

Medical College, Pezeshk Blvd, Ghotbe Ravandi Blvd.

City

Kashan

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

Yes

Title of funding source

Vice chancellor of research, Kashan 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**

Kashan University of Medical Sciences

Full name of responsible person

Dr. Fatemeh Foroozanfard

Position

Obstetrician and Gynecologist, Infertility and IVF Fellowship/ Assistant professor

Other areas of specialty/work**Street address**

Shahid Beheshti Hospital, Parastar Blvd, Ghotbe Ravandi Blvd

City

Kashan

Postal code**Phone**

+98 36 1542 1355

Fax**Email**

fatemehforoozanfard@yahoo.com:
foroozanfar_f@kaums.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Kashan University of Medical Sciences

Full name of responsible person

Dr. Fatemeh Foroozanfard

Position

Obstetrician and Gynecologist, Infertility and IVF Fellowship/ Assistant professor

Other areas of specialty/work**Street address**

Shahid Beheshti Hospital, Parastar Blvd, Ghotbe Ravandi Blvd

City

Kashan

Postal code**Phone**

+98 36 1542 1355

Fax

Email

fatemehforoozanfard@yahoo.com:

foroozanfar_f@kaums.ac.ir

Web page address

Phone

+98 36 1542 1355

Fax

Email

fatemehforoozanfard@yahoo.com:

foroozanfar_f@kaums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Kashan University of Medical Sciences

Full name of responsible person

Dr. Fatemeh Foroozanfard

Position

Obstetrician and Gynecologist, Infertility and IVF

Fellowship/ Assistant professor

Other areas of specialty/work

Street address

Shahid Beheshti Hospital, Parastar Blvd, Ghotbe

Ravandi

City

Kashan

Postal code

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