

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Comparing IVF outcomes in GnRH antagonist protocol during early and late follicular phase and GnRH antagonist protocol(flexible) and long GnRH agonist protocol in patients with polycystic ovary syndrome .

Protocol summary

Summary

In this study we compare the results of In Vitro Fertilization(IVF) in three groups of new protocol (GnRH antagonist administration in early and late follicular phase) and GnRH antagonist protocol (flexible) and GnRH agonist long protocol in patients with poly cystic ovary syndrom(PCOS) . Therefore of the PCOS patients refere to Avicenna Infertility Center from 21/7/2013 until 22/10/2013 with IVF indication for their infertility, 50 patients will be randomized in each group (total 150 patients) and evaluated .PCOS patients will be selected based on Rotterdam criteria with age 20-38 years old and they are not in IVF failure group as our inclusion and exclusion criteria.In new protocol we prescribe GnRH antagonist on day1,2 Gonadotropine ovarian stimulation and then after atleast 2 follicles reach to 13-14 milimeter.Then IVF outcomes will be evaluated in three groups for clinical pregnancy rate.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012120311653N1**
Registration date: **2013-07-16, 1392/04/25**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2013-07-16, 1392/04/25

Registrant information

Name

Sara Mokhtar

Name of organization / entity

Avicenna Infertility Treatment Center

Country

Iran (Islamic Republic of)

Phone

+98 21 23519

Email address

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Recruitment status

Recruitment complete

Funding source

Avicenna Infertility Treatment Center

Expected recruitment start date

2013-07-21, 1392/04/30

Expected recruitment end date

2013-10-22, 1392/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing IVF outcomes in GnRH antagonist protocol during early and late follicular phase and GnRH antagonist protocol(flexible) and long GnRH agonist protocol in patients with polycystic ovary syndrome .

Public title

Comparasion between several ovarian stimulation protocols for infertility treatment

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: PCOS patients based on Rotterdam criteria with IVF indication for their infertility ; Age 20-38 Y; Normal Sexual development and Normal puberty; Patients without cardiac and vascular -renal-hepatic disease ; FSH<12 in third day of menstrual cycle ;

Normal TSH and Prolactin Exclusion criteria: Hormon Therapy during recent 3 month ; ART failurs>2 ; recurrent abortion >=2 in first trimester ; Cervical and uterine anatomical abnormality ; ovarian cysts ; Hydrosalpinx

Age

From **20 years** old to **38 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Avicenna infertility treatment center

Street address

Avicenna Infertility Center, No 97, Yakhchal-Shariati junction, Shariati st, Tehran, Iran

City

Tehran

Postal code

Approval date

2012-11-05, 1391/08/15

Ethics committee reference number

91/15/2822/ص

Health conditions studied

1

Description of health condition studied

polycystic ovary syndrom

ICD-10 code

E90

ICD-10 code description

Nutritional and metabolic disorders in diseases classified elsewhere

Primary outcomes

1

Description

Clinical pregnancy

Timepoint

After intervention

Method of measurement

Sonography

Secondary outcomes

1

Description

Biochemical pregnancy

Timepoint

After intervention

Method of measurement

HCG

Intervention groups

1

Description

In GnRH antagonist group with early and late follicular phase:Cetrorelix0.25mg starts on day1,2 gonadotropin stimulation and when atleast 2 follicles reach 13-14 mm and continues until HCG administration.

Category

Treatment - Drugs

2

Description

In GnRH agonist (long protocol)group:superfact 0.5 mg starts from day21 prior menstrual cycle and 0.25 mg superfact with gonadotropin stimulation and continues until HCG administration.

Category

Treatment - Drugs

3

Description

In GnRH antagonist (flexible)protocol group: cetrorelix 0.25mg starts when atleast 2 follicles reach 13-14mm and continues until HCG administration.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Avicenna Infertility Treatment Center

Full name of responsible person

Dr Sara Mokhtar

Street address

Avicenna Infertility Treatment Center, No 97,
Yakhchal-Shariati junction, Shariati st, Tehran, Iran

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

Avicenna Infertility Treatment Center

Full name of responsible person

Dr Akhondi

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Avicenna Infertility Treatment Center, No 97,
Yakhchal-Shariati junction, Shariati st, Tehran, Iran

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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

Avicenna Infertility Treatment Center

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**

Avicenna Infertility Treatment Center

Full name of responsible person

Sara Mokhtar

Position

Obstetrician and Gynecologist

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

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

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Full name of responsible person

Sara Mokhtar

Position

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

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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