

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Assessment the efficacy of early and short follicular GnRH antagonist in IVF cycles

Protocol summary

Summary

According to benefit of antagonist protocol in IVF cycle, the aim of this study is some changes in antagonist protocol as increasing pregnancy rate. Inclusion criteria is the patient with male and tubal factor infertility and exclusion criteria is FSH >10. A total 60 patients undergoing this study at Yazd research and clinical center for infertility from March 2011 to March 2012 were included. All patients received routine flexible GNRH antagonist when the leading follicle diameter reached ≥ 13 mm and HMG/rFSH is starting on cycle day 2 until appropriate dominant follicles are reached. Only 30 patients randomly received GNRH antagonist on day 1, 2 and 3 of menstrual cycle as interventional group. Serial ultrasonography is done for evaluation of follicular size and endometrial thickness as needed. UHCG 10000 IU is administered to induce ovulation when dominant follicle is ≥ 18 mm. Then oocyte retrieval is done 34-36 hours after HCG administration. The number of oocyte retrieval and pregnancy rate are compared in both groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201108044339N5**

Registration date: **2011-08-24, 1390/06/02**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-08-24, 1390/06/02

Registrant information

Name

Elham Rahmani

Name of organization / entity

Bushehr University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Yazd research and clinical center for infertility

Expected recruitment start date

2011-03-21, 1390/01/01

Expected recruitment end date

2012-03-20, 1391/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment the efficacy of early and short follicular GnRH antagonist in IVF cycles

Public title

A new protocol in IVF

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: FSH<10, 20<age<39, male or tubal infertility. Exclusion criteria:IVF failure, FSH>10, 20>age >39, endometriosis,infertility due to other than male or tubal factor, the patient with liver and kidney and heart disease.

Age

From **20 years** old to **39 years** old

Gender

Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: 60

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

Yazd research and clinical center for infertility

Street address

Yazd research and clinical center for infertility, Bootali Street, Safaieh, Yazd

City

Yazd

Postal code

8916877391

Approval date

2011-08-08, 1390/05/17

Ethics committee reference number

1476

Health conditions studied

1

Description of health condition studied

female infertility

ICD-10 code

N97

ICD-10 code description

female infertility

Primary outcomes

1

Description

the number of oocyte retrieval

Timepoint

the day of puncture

Method of measurement

counting by microscope

Secondary outcomes

1

Description

chemical pregnancy

Timepoint

14 days after embryo transfer

Method of measurement

serum BHCG

Intervention groups

1

Description

As control group, 30 patients randomly received routine flexible GNRH antagonist when the leading follicle diameter reached ≥ 13 mm and HMG/rFSH is starting on cycle day 2 until appropriate dominant follicles are reached. Serial ultrasonography is done for evaluation of follicular size and endometrial thickness as needed. UHCG is administered to induce ovulation when dominant follicle is ≥ 18 mm .Then oocyte retrieval is done 34-36 hours after HCG 10000 IU administration. The number of oocyte retrieval and pregnancy rate are compared in both groups.

Category

Treatment - Drugs

2

Description

30 patients randomly received routine flexible GNRH antagonist when the leading follicle diameter reached ≥ 13 mm and HMG/rFSH is starting on cycle day 2 until appropriate dominant follicles are reached. In addition these patients as interventional group received GNRH antagonist on day 1, 2 and 3 of menstrual cycle, too. Serial ultrasonography is done for evaluation of follicular size and endometrial thickness as needed. UHCG 10000 IU is administered to induce ovulation when dominant follicle is ≥ 18 mm .Then oocyte retrieval is done 34-36 hours after HCG administration. The number of oocyte retrieval and pregnancy rate are compared in both groups.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Yazd research and clinical center for infertility

Full name of responsible person

Dr Robab Davar

Street address

Yazd research and clinical center for infertility, Booali
Street, Safaieh, Yazd

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd research and clinical center for infertility

Full name of responsible person

Dr. Robab Davar

Street address

Yazd research and clinical center for infertility, Booali
Street, Safaieh, Yazd

City

Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Yazd research and clinical center for infertility

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

Yazd research and clinical center for infertility

Full name of responsible person

Dr.Elham Rahmani

Position

Obstetrics and Gynecologist, Student of fellowship

Other areas of specialty/work

Street address

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Person responsible for scientific inquiries

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Name of organization / entity

Yazd research and clinical center for infertility

Full name of responsible person

Dr Robab Davar

Position

Obstetrics and Gynecologist, fellowship of infertility

Other areas of specialty/work

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Person responsible for updating data

Contact

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