

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jun 2026

Efficacy of Low - dose human chorionic gonadotropin in the late follicular phase in GnRH - antagonist protocol in infertile women

Protocol summary

Summary

In IVF cycle make an effort to improving the outcome and minimize cost and decrease the risk of OHSS. The study is designed as prospective randomized clinical trial. 110 patients who are candidates for IVF in Yazd research and clinical center for infertility is evaluated from March 2011 to March 2012. Inclusion criteria: regular menstrual cycle, age between 20 to 38 years old. Exclusion criteria: endometriosis, azoospermia. On day 2 of the menstrual cycle, all patients receive daily injection of gonadotropin. Randomly, in 55 patients as interventional group, when at least 6 follicles of more than 12 mm are present on ultrasound, gonadotropin is substituted by 200 IU hCG/day. In control group (55 patients) gonadotropin is continued. In both groups when two co dominant follicles reach 13-14 mm administration of the GnRH antagonist cetrorelix is started at a daily dose of 0.25mg sc and extended until the day of final follicle maturation (defined by ultrasound detection of more than 2 follicles which more than 18mm in size). Subsequently 10000 IU hCG is injected IM to accommodate oocyte retrieval within 36 hours. Embryo transfer is performed on day 3 after oocyte retrieval. Clinical pregnancy, number of oocyte, duration of stimulation and total dose of gonadotropin compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201108044339N7**
Registration date: **2011-09-26, 1390/07/04**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-09-26, 1390/07/04

Registrant information

Name

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Name of organization / entity

Bushehr University of Medical Sciences

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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

Efficacy of Low - dose human chorionic gonadotropin in the late follicular phase in GnRH - antagonist protocol in infertile women

Public title

human chorionic gonadotropin GnRH - antagonist in IVF

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: regular menstrual cycle; age between 20 to 38 years old, FSH less than 12, estradiol less than 60 pg/ml. Exclusion criteria: endometriosis; azoospermia, polycystic ovary, history of poor ovarian

response.

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: **110**

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, Boali Street, Safaieh, Yazd

City

Yazd

Postal code

8916877391

Approval date

2011-08-08, 1390/05/17

Ethics committee reference number

1478

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

In interventional group, 55 patients on day 2 of the menstrual cycle receive daily injection of gonadotropin and when at least 6 follicles with 12 mm in size, are present on ultrasound, gonadotropin is substituted by 200 IU hCG/day. When two dominant follicles reach 13-14 mm, administration of the GnRH antagonist cetrorelix is started at a daily dose of 0.25mg subcutaneous and extended until the day of final follicle maturation (defined by ultrasound detection of more than 2 follicles with more than 18mm).subsequently 10000 IU HCG is injected IM to accommodate oocyte retrieval within 36 hours. Embryo transfer is performed on day 3 after oocyte retrieval.

Category

Treatment - Drugs

2

Description

In control group, 55 patients on day 2 of the menstrual cycle, receive daily injection of gonadotropin and When two dominant follicles reach 13-14 mm administration of the GnRH antagonist cetrorelix is started at a daily dose of 0.25mg subcutaneous and extended until the day of final follicle maturation (defined by ultrasound detection of more than 2 follicles which more than 18mm).Subsequently 10000 IU hCG is injected IM to accommodate oocyte retrieval within 36 hours. Embryo transfer is performed on day 3 after oocyte retrieval.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Yazd research and clinical center for infertility

Full name of responsible person

Di Razieh Dehghani Firoozabadi

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Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

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Full name of responsible person

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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

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 Mozghan Rahsepar

Position

Obstetrics and Gynecologist, Student of fellowship

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

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

Yazd research and clinical center for infertility

Full name of responsible person

Dr Razieh Dehghani Firoozabadi

Position

Obstetrics and Gynecologist, fellowship of infertility

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

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Web page address**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*