

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 May 2026

Comparison of IVF outcome in antagonist cycles by using different dosages of GnRH agonist (0.1, 0.2, and 0.3 diphereline) in triggering of final oocyte maturation in infertile women referring to Mother & Child hospital in 2014&2015

Protocol summary

Study aim

Comparison the effect of antagonist cycles by of different of GNRH agonist (.1,.2,.3) dipherline for triggeing of final oocyte maturation in infertile women on fertilization rate , implantation rate, OHSS in cided. The number and quality of oocyte retried, number of m2 oocyte, number and quality of the emberyos

Design

In this research , 150 patients referred to Ghadir Shiraz Maternal and Child Infertility Center were selected for inclusion in the study. Participants were randomly divided into three groups, with intervention for each of the three groups, each receiving a unique number.

Settings and conduct

Patients were randomly divided into three groups: the first group received 1.1 mg, the second group 2.2 mg and the third group received 3.3 mg of dipherelin after proper follicular growth. In all subjects, the amount of drug used, FSH and AMH levels, and estradiol and LH levels were measured daily. And this study is done in Shiraz Maternal and Child Hospital

Participants/Inclusion and exclusion criteria

Inclusion criteria: Women with aged between 20-40 years; Women with baseline FSH levels under 12; mWomen with menstrual cycles between 25 and 34 days; Both Ovary present Exclusion criteria: Ovarian responsiveness and very low ovaries; Age over 40 years; High and equal to FSH; AMH less than or equal to 1; Antral follicles under 7; Any glandular disease

Intervention groups

150 infertile patients are randomly divided into three groups. 50 people at the time of the final trigger of DIF, 1. 50 at DIF, 2. 50 at DIF. Prior to initiation of the study, baseline AMH and FSH levels were measured in all patients.

Main outcome variables

Fertility rate; Implantation rate; Abortion rate; giving birth; The possibility of ovarian hyperstimulation; Number and quality of oocytes; Oocyte number M2; Number and quality of embryos

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190409043212N2**

Registration date: **2020-01-20, 1398/10/30**

Registration timing: **retrospective**

Last update: **2020-01-20, 1398/10/30**

Update count: **0**

Registration date

2020-01-20, 1398/10/30

Registrant information

Name

Sara Davoodi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3233 2365

Email address

sdavoodi9798@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2015-12-27, 1394/10/06

Expected recruitment end date

2016-12-26, 1395/10/06
Actual recruitment start date
2015-12-27, 1394/10/06
Actual recruitment end date
2016-03-25, 1395/01/06
Trial completion date
2016-03-25, 1395/01/06

Scientific title
Comparison of IVF outcome in antagonist cycles by using different dosages of GnRH agonist (0.1, 0.2, and 0.3 diphereline) in triggering of final oocyte maturation in infertile women referring to Mother & Child hospital in 2014&2015

Public title
Evaluating the Effects of GnRH agonist (0.1, 0.2, and 0.3 diphereline) in triggering of final oocyte maturation in infertile women

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Infertile women with aged between 20-40 years
Women with FSH levels under 12
Women with menstrual cycles between 25 and 34 days
Women with both Ovary

Exclusion criteria:

Ovarian hyper stimulation and very low responses
Follicular stimulating hormone ≥ 12
Anti-mullerian hormone ≤ 1
Antral follicular count < 7
Any glandular disease

Age
From **20 years** old to **40 years** old

Gender
Female

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **150**
Actual sample size reached: **150**

Randomization (investigator's opinion)
Randomized

Randomization description
Randomization method: use block; Random unit: Individual; Randomization tool: Statistical software Minitab; Sequence Building: Using randomized 4 in 4 blocks; Hiding method: Use similar bottles

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

Medical Science Researching, Shiraz University of Medical Science

Street address

Shiraz University of Medical Sciences, Zand Street, Shiraz

City

Shiraz

Province

Fars

Postal code

34786-71946

Approval date

2015-12-06, 1394/09/15

Ethics committee reference number

IR.SUMS.MED.REC.1394.66

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97

ICD-10 code description

Female infertility

Primary outcomes

1

Description

Number and quality of oocytes

Timepoint

After Pickup

Method of measurement

sonography

2

Description

Number and quality of embryos

Timepoint

After fertilization

Method of measurement

Sonography

3

Description

Implantation

Timepoint

After trnasfer

Method of measurement

BHCG test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 50 people 0.1 dipherelin at the time of the final trigger, subcutaneous injection 34 hours before ovum pick up.

Category

Treatment - Drugs

2

Description

Intervention group: 50 people 0.2 dipherelin at the time of final trigger, subcutaneous injection 34 hours before ovum pick up.

Category

Treatment - Drugs

3

Description

Intervention group: 50 people 0.3 dipherellin at the time of final trigger, subcutaneous injection 34 hours before ovum pick up.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Mother & Child of Ghadir Hospital

Full name of responsible person

Sara Davoodi

Street address

Shiraz, Before Quran gate, Golshan town, Mothrer and Child of Ghadir hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Dr. Yoones Ghasemi

Street address

Vice chancellor of research,7th floor of central building of Shiraz University of Medical Sciences, Zand street

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Phone

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Email

ghasemiy@sums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shiraz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Sara Davoodi

Position

Fellowship

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Department of obstetrics and gynecology, Shahid Faghihi Hospital, Zand St, Shiraz, Iran

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Almataj Samsami

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for updating data

Contact

Name of organization / entity

Infertility Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

Full name of responsible person

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Position

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Latest degree

Specialist

Other areas of specialty/work

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Postal code

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

IPD: Information and research data Ethic form: Complete the Ethic form by the patient

When the data will become available and for how long

IPD: 2019 Ethic form: 2019

To whom data/document is available

IPD: Researcher & Patient Ethic form: Patient

Under which criteria data/document could be used

IPD: Ethic form: Awareness of test results

From where data/document is obtainable

IPD: OB & Gyn ward Shiraz university of medical sciences
Ethic form: OB & Gyn ward Shiraz university of medical sciences

What processes are involved for a request to access data/document

IPD: Vice chancellery Ethic form: Vice chancellery

Comments