

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

The Evaluation of The Effects of Mild Ovarian Stimulation on IVF(in vitro fertilization) Results In Comparison With Conventional Method ,The Infertility Center Hospital Patients,2012-2013

Protocol summary

Summary

Objective: The aim of this clinical trial was to compare the therapeutic effects of two ovarian stimulation methods (i.e. mild and conventional) on IVF outcomes. Study design: Inclusion criteria : women between 18 and 35 years of age with regular menses who were undergoing their first IVF. Exclusion criteria :established systemic disease and repeated abortions. The target population consisted of 204 female patients presenting to the infertility center. Patients were entered into the study after thorough evaluation and informed consent. Patients were randomly divided into two groups using a computer. Method: Patients were randomly divided into two groups of A and B. Both groups underwent treatment with gonadotropins. However, patients in the former group were given GnRH agonists, while GnRH antagonists and clomiphene citrate were administered to their counterparts in group B. Interventions: In group A, a conventional ovarian stimulation method was applied in that patients were given Superfact 500 micrograms SQ from day 21 of their menstrual cycle followed by a reduction in dose to 250 micrograms per day on the 3rd day of the cycle together with recombinant FSH at 225-150 IU for stimulation. As for group B, mild ovarian stimulation using 100mg of clomiphene citrate was initiated from days 3 to 7 of the menstrual cycle. Gonadotropin-induced stimulation was begun on day 5 at a dose of 75 IU and the course was followed by a control ultrasound exam on day eight. In both groups, follicles were obtained for IVF or ICSI using transvaginal ultrasonic guided puncture 34-36 hours after the injection of HCG. Outcomes: The primary outcomes were the determination of the number of chemical and clinical pregnancies, while secondary outcomes included evaluating the number of fetuses, the number of frozen fetuses, and possible complications (e.g. multiparities;implantation rates; and the OHSS

syndrome).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014030516858N1**

Registration date: **2014-04-01, 1393/01/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-04-01, 1393/01/12

Registrant information

Name

Sepideh Peyvandi

Name of organization / entity

Mazandaran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 4443 0501

Email address

drspeyvandi@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2012-03-20, 1391/01/01

Expected recruitment end date

2013-03-21, 1392/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty
Trial completion date
empty

Scientific title

The Evaluation of The Effects of Mild Ovarian Stimulation on IVF(in vitro fertilization) Results In Comparison With Conventional Method ,The Infertility Center Hospital Patients,2012-2013

Public title

Compare Two Different Methods of Ovarian Stimulation On Outcome of In Vitro Fertilization (IVF)

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: female patient age 18-35 years; presence of a regular ; proven ovulatory menstruation cycle with a length of 26-35 days, more that 5 million sperm in SA(semen analysis);body mass index (BMI) of 18-30 kg/m ; first IVF attempt . Exclusion criteria:established systemic disease ;ovary and Uterus abnormalities;repeated abortions.

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **204**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mazandaran University of Medical Sciences

Street address

Payambar Aazam Department, 18th kilometer of Sea Roud, SARI , MAZANDARAN , IRAN

City

Sari

Postal code

Approval date

2012-11-07, 1391/08/17

Ethics committee reference number

91-179

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97

ICD-10 code description

Female Infertility

Primary outcomes

1

Description

Increase Endometrial Thickness

Timepoint

2 Days After HCG Injection

Method of measurement

Sonography

2

Description

Increase Implantation

Timepoint

3 week

Method of measurement

Lab Test

3

Description

Increase Chemical Pregnancy

Timepoint

12 Day

Method of measurement

β-hCG

4

Description

Increase Clinical Pregnancy

Timepoint

3 week

Method of measurement

Sonography

5

Description

Decrease Treatment Cost

Timepoint

Delivery Time

Method of measurement

Counting-RIALs

Secondary outcomes

1

Description

Decrease OHSS Syndrom

Timepoint

Delivery Time

Method of measurement

Counting

2

Description

Decrease of Multiple Pregnancy

Timepoint

Delivery Time

Method of measurement

Counting

3

Description

Increase Of Follicular Number

Timepoint

8 Day

Method of measurement

Counting

4

Description

Increase Of Ovoocyt Number

Timepoint

10 Days

Method of measurement

Counting

5

Description

Increase Of Embryo Freez

Timepoint

3week

Method of measurement

Counting

Intervention groups

1

Description

Control Group(group active control or standard) :The Cases in This Group Will Be Treated with Conventional Ovarian Stimulation .They Desensitized with OCP ,Sarting on 3th Cycle Day.in Menstrual Cycle 21th Day, They Were Injected 0.5 cc Superfact (GNRH-a),(S.C) and in 3th Day of Menstrual Bleeding The Dosage Was Changed Into The 0.25 cc (S.C) In The Patients. Ovarian Stimulation Was Started With 150-225 IU Recombinant FSH (r_FSH) S.C.

Category

Treatment - Drugs

2

Description

Patients in Group With New Treatment(mild Ovary Stimulation) Were Stimulated Clomiphene Citrate 100 mg From Cycle Day Three Through Seven and Continuous Gonadotropin Stimulation With Of r_FSH 75 IU Daily From Cycle Day 5.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Infertility Clinic Of Emam Khomaini Hospital

Full name of responsible person

MRs soltani-Mrs rasouli

Street address

Emam Khomeini Hospital, Amir Mazandarani Street , SARI ,MAZANDARAN, IRAN

City

sari

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Mr gholami

Street address

sari 18th km sea roud.payambar aazam department

City

sari

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mazandaran 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

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Sepideh Peyvandi

Position

chief -Associated professor of Obstetric and Gynecology-fellowship of infertility

Other areas of specialty/work

Street address

Emam Khomaini Hospital, Amir Mazandarani Street , SARI,MAZANDARAN ,IRAN

City

sari

Postal code

12345

Phone

+98 15 1226 1700

Fax

Email

drspeynadi@mazums.ac.irhoora_2243@yahoo.comas
dvsdpda@yahoo.com

Web page address

Email

drspeyvandi@mazums.ac.irhoora_2243@yahoo.coma
sdvsdpda@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Seyedeh Houra Hashemi

Position

Obstetric and Gynecology Resident

Other areas of specialty/work

Street address

Emam Khomaini Hospital ,Amir Mazandarani Street , SARI , MAZANDARAN ,IRAN

City

Sari

Postal code

Phone

00

Fax

Email

hoora_2243@yahoo.comasdvsdpda@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Sepideh Peyvandi

Position

chief-Associated professor of Obstetric and Gynecology-fellowship of infertility

Other areas of specialty/work

Street address

Emam Khomaini Hospital, Amir Mazandarani Street , SARI ,MAZANDARAN , IRAN

City

sari

Postal code

Phone

+1 512261700

Fax

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