

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 2026

The effect of adding low dose human Chorionic Gonadotropin (hCG) to recombinant Follicular Stimulating Hormone (rFSH) on follicular phase in women undergoing intracytoplasmic sperm injection cycle, a clinical trial.

Protocol summary

Summary

This research is done to examine the effect of adding low dose human Chorionic Gonadotropin (hCG) to recombinant Follicular Stimulating Hormone (rFSH) on follicular phase in women undergoing intracytoplasmic sperm injection cycle. This research is randomized double blind controlled clinical trial. Our trial performs in Fateme Zahra Reproductive Research Center in Babol, Iran. Patients with these inclusion criteria: 20 – 40 years old; normal salpingography are selected and randomly divided in three groups. Exclusion criteria include history of previous chronic disease. Patients randomly placed in to three groups of 50 women. In all three groups all patients treated with a dose of 150 International Unit (IU) rFSH per day. In the first group or control group treatment with rFSH will continue until the creation of the oocytes. In the second group when the follicle size become 14 millimeter, rFSH dose reduce to 75 IU per day and treatment starts with 100 IU hCG per day. In the third group when follicle size become 14 millimeter, treatment with rFSH stops and patient treat with 200 IU hCG per day. Gonadotropin administration continues to mature follicles. When at least two or three follicles 18 millimeter to 20 millimeter in size were formed; 100 IU hCG will inject. Thirty six hours later ovarian puncture is performed. Oocyte maturation, ovarian hyperstimulation syndrome and follicular response will compare in three groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017012932284N1**

Registration date: **2017-03-07, 1395/12/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-03-07, 1395/12/17

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Babol University of Medical Sciences.

Expected recruitment start date

2017-02-19, 1395/12/01

Expected recruitment end date

2017-06-22, 1396/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of adding low dose human Chorionic Gonadotropin (hCG) to recombinant Follicular Stimulating Hormone (rFSH) on follicular phase in women undergoing intracytoplasmic sperm injection cycle, a clinical trial.

Public title

Effect of human Chorionic Gonadotropin (hCG) on treatment of infertility

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: 20 - 40 years old; 1 year history of infertility; candidate for intracytoplasmic sperm injection.

Exclusion Criteria: history of chronic disease; abnormal salpingography.

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**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Babol University of Medical Sciences

Street address

Rohani hospital, Ganjafrooz street, Babol

City

Babol

Postal code

4717647745

Approval date

2016-07-13, 1395/04/23

Ethics committee reference number

mubabol.hri.rec.1395.54

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

n97.0

ICD-10 code description

Female infertility associated with anovulation

Primary outcomes

1

Description

Follicle size

Timepoint

Daily

Method of measurement

Ultrasonography - Milimeter

2

Description

Mature oocyte

Timepoint

End of Cycle

Method of measurement

Sonography

Secondary outcomes

1

Description

Ovarian Hyperstimulation Syndrome

Timepoint

Daily

Method of measurement

Sonography - Follicle size - Milimeter

Intervention groups

1

Description

In the first group patients treated with a dose of 150 International Unit (IU) recombinant Follicular Stimulating Hormone (rFSH) per day. Treatment with rFSH will continue until the creation of the oocytes. When at least two or three follicles 18 millimeter to 20 millimeter in size were formed; 100 IU human Chorionic Gonadotropin (hCG) will inject. Thirty six hours later ovarian puncture is performed

Category

Treatment - Drugs

2

Description

In the second group patients treated with a dose of 150 International Unit (IU) recombinant Follicular Stimulating Hormone (rFSH) per day. When the follicle size become 14 millimeter, rFSH dose reduce to 75 IU per day and treatment starts with 100 IU human Chorionic Gonadotropin (hCG) per day. When at least two or three follicles 18 millimeter to 20 millimeter in size were formed; 100 IU hCG will inject. Thirty six hours later ovarian puncture is performed.

Category

Treatment - Drugs

3**Description**

In the third group patients treated with a dose of 150 International Unit (IU) recombinant Follicular Stimulating Hormone (rFSH) per day. When follicle size become 14 millimeter, treatment with rFSH stops and patient treat with 200 IU human Chorionic Gonadotropin per day. When at least two or three follicles 18 millimeter to 20 millimeter in size were formed; 100 IU hCG will inject. Thirty six hours later ovarian puncture is performed.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Fatemehzahra Infertility and Reproductive Health Research Center

Full name of responsible person

Dr. Maryam Yeganegi

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Torkmahalle, 3 Km after Mohammad Hassan Khan Bridge, Babol, Mazandaran,Iran

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

Vice Chancellor for Research, Babol University of Medical Science

Full name of responsible person

Dr Ali Bijani

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Babol University of Medical Science, Ganjafrooz Street,

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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

Vice Chancellor for Research, Babol University of Medical Science

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**

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Full name of responsible person

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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