Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Evaluation the effect of intrauterine injection of recombinant human chorionic gonadotropin at different doses, before embryo transfer in improvement of implantation and pregnancy rates in in vitro fertilization/intracytoplasmic sperm injection: a prospective randomised controlled trial study.

Protocol summary

Summary

Objective: Evaluation of intrauterine injection of recombinant human chorionic gonadotropin at different doses before embryo transfer in improvement of implantation and pregnancy rates in in vitro fertilization/intracytoplasmic sperm injection Design: parallel randomised controlled trial ,single blind Setting: The Mother & Child hospital, IVF-ET Center. Participants: Infertility patients younger than 40 years who referred for IVF-ICSI at the reproductive medicine center of The Mother & Child hospital. 420 patients fulfilled the study requirements. The inclusion criteria were female age under 40 years old with infertility. Exclusion criteria were previous IVF/ICSI trials, including a successful trial, endometriosis, azoospermia, uterine myoma or previous myomectomy, or the existence of hydrosalpinges. Sample size: 420 patients Intervention(s): The study groups (n = 105 in each group) received different doses (500 µg ,250 ,125 of rhCG intrauterine injection 12 minutes before ET. The control group (n = 105) underwent ET without rhCG. Intervention time: intrauterine injection of rhCG 12 minutes before ET. Main Outcome Measure(s): Clinical pregnancy rate (PR) and implantation rate (IR).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015020921008N1**
Registration date: **2015-04-11, 1394/01/22**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-04-11, 1394/01/22

Registrant information

Name
Gooya Madadi
Name of organization / entity
Shiraz University of Medical Sciences
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Iran (Islamic Republic of)
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gmadadi@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2015-01-21, 1393/11/01

Expected recruitment end date

2015-07-23, 1394/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the effect of intrauterine injection of recombinant human chorionic gonadotropin at different doses, before embryo transfer in improvement of implantation and pregnancy rates in in vitro

fertilization/intracytoplasmic sperm injection: a prospective randomised controlled trial study.

Public title
Evaluation of intrauterine injection of recombinant human chorionic gonadotropin at different doses in improvement of pregnancy rates in in vitro fertilization/intracytoplasmic sperm injection
Purpose
Treatment
Inclusion/Exclusion criteria
The inclusion criteria: female age under 40 years old with infertility. Exclusion criteria: previous IVF/ICSI trials, including a successful trial, endometriosis, azoospermia, uterine myoma or previous myomectomy, or the existence of hydrosalpinges.
Age
From **18 years** old to **40 years** old
Gender
Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **420**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Double 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 univercity of Medical Science
Street address
Shiraz University of Medical Science , Zand Street
City
Shiraz
Postal code
Approval date
2015-01-25, 1393/11/05
Ethics committee reference number
ct-p-9387-8237

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
implantation rate
Timepoint
two weeks after embryo transfer
Method of measurement
conventional pregnancy test

Secondary outcomes

1

Description
Clinical pregnancy rate
Timepoint
three weeks after a positive pregnancy test
Method of measurement
ultrasound

Intervention groups

1

Description
Intervention group: receiving rhCG as intrauterine injection 12 minutes before ET. .
Category
Treatment - Drugs

2

Description
Control group: undergoing ET without a previous intrauterine injection of rhCG.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Mother & Child hospital
Full name of responsible person
dr Gooya Madadi
Street address

Shiraz University of Medical Sciences، Zand Street، Shiraz

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Dr Basir Hashemi

Street address

Shiraz University of Medical Sciences، Zand Street، Shiraz

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Shiraz

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

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

Shiraz University of Medical Sciences

Full name of responsible person

dr Gooya Madadi

Position

Fellowship of Obstetrics & GYN, Infertility

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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