

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Evaluation the effects of intrauterine Human Chorionic Gonadotropin injection on intracytoplasmic sperm injection -Embryo transfer cycles success rates.

Protocol summary

Summary

Objective: To investigate the effect of intrauterine injection of human chorionic gonadotrophin on the day of oocyte recovery on clinical pregnancy and implantation rates in intracytoplasmic sperm injection-embryo transfer cycles. Design: Clinical trial. Setting and conduction: : Infertility & Reproductive Health Research Centre, Shahid Beheshti University of Medical Science, Thaleghani hospital. Participant(s): 308 infertile women who attending in the private infertility clinic, Tehran, That have aged 20-40 years undergoing fresh intracytoplasmic sperm injection-embryo transfer cycles and have normal endometrial thickness (7-12 millimeters) on the day of embryo transfer and they dont have any visible endometrial pathology, And they have less than three failed previous intracytoplasmic sperm injection cycles, BMI <30, And duration of infertility less than 10 years are included. And randomly divided in two groups. Intervention: In case group 5000 IU/ml of urinary human chorionic gonadotrophin diluted with with 1 ml of media and immedietly after oocyte recovery, Injected in to the uterine cavity by IUI catheter and three days later embryo transfered. But in the control group continues treatment without any intervention . Main outcome mesure: Clinical pregnancy rates, Implantation rates.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2014122320408N1**

Registration date: **2015-01-18, 1393/10/28**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-01-18, 1393/10/28

Registrant information

Name

Robabeh Taheripanah

Name of organization / entity

Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Country

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Recruitment status

Recruitment complete

Funding source

Infertility & Reproductive Health Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the effects of intrauterine Human Chorionic Gonadotropin injection on intracytoplasmic sperm injection -Embryo transfer cycles success rates.

Public title

Effect of HCG on pregnancy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Women aged 20-40 years undergoing fresh intracytoplasmic sperm injection -embryo transfer cycles that have normal endometrial thickness (7-12 millimeters) on the day of embryo transfer and they don't have any visible endometrial pathology, And they have less than three failed previous intracytoplasmic sperm injection cycles, BMI <30, And duration of infertility less than 10 years are included. Exclusion criteria: Abnormally shaped uterus in hysterosalpingography or hysteroscopy, More than 3 previous failure of intracytoplasmic sperm injection-embryo transfer cycles, BMI > 30, And duration of infertility is more than 10 years and severe male infertility.

Age

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

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **308**

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

Infertility & Reproductive Health Research Center
Ethics committee of Shahid Beheshti University of

Street address

3rd floor, Taleghani Hospital, Velenjak, Shahid
Chamran highway, Tehran

City

Tehran

Postal code

1985711151

Approval date

2013-08-02, 1392/05/11

Ethics committee reference number

93/360

Health conditions studied

1

Description of health condition studied

Diseases of the genitourinary system

ICD-10 code

N00-N99

ICD-10 code description

Noninflammatory disorders of female genital tract

Primary outcomes

1

Description

Clinical pregnancy rate

Timepoint

Five weeks after start of intervention

Method of measurement

Transvaginal ultrasonography

2

Description

Implantation rate

Timepoint

End of the treatment

Method of measurement

Statistical analysis

Secondary outcomes

1

Description

Chemical pregnancy rate

Timepoint

Two weeks after embryo transfer

Method of measurement

Labratory kit

2

Description

Miscariage rate

Timepoint

Until 24 weeks after start of intervention

Method of measurement

History, physical exam, ultrasonography

3

Description

Fertilization rate

Timepoint

After embryo development

Method of measurement

Labratory investigation

Intervention groups

1

Description

Intervention: In case group 5000 IU/ml of urinary human chorionic gonadotrophin diluted with with 1 ml of media and immediately after oocyte recovery, Injected in to the uterine cavity by IUI catheter and three days later embryo transferred.

Category

Treatment - Drugs

2

Description

Control group: Continues treatment without any intervention.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

IVF ward, Parsian hospital

Full name of responsible person

Marzieh Zamanian

Street address

Taleghani hospital, Velenjak, Shahid Chamran highway, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Infertility & Reproductive Health Research Center of Shahid Beheshti University of Medical Sciences

Full name of responsible person

Zahra Sadeghzade

Street address

Taleghani hospital, IVF ward, Velenjak, Shahid Chamran highway, Tehran

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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

Infertility & Reproductive Health Research Center of Shahid Beheshti 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

Infertility & Reproductive Health Research Center
Shahid Beheshti University of Medical Science

Full name of responsible person

Robabeh Taheripannah

Position

Associate professor

Other areas of specialty/work

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-

Person responsible for scientific inquiries

Contact

Name of organization / entity

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Shahid Beheshti of Medical Science

Full name of responsible person

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Position

Obstetric and gynecologist

Other areas of specialty/work

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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