Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 terial. 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 milimeters) on the day of embryo transfer and thay 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.

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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 milimeters) on the day of embryo transfer and thay 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. 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 immedietly after oocyte recovery, Injected in to the uterine cavity by IUI catheter and three days later embryo transfered.
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
City
Tehran
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 Taheripanah
Position
Associate professor
Other areas of specialty/work
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Person responsible for scientific inquiries

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Name of organization / entity
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Full name of responsible person
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Obstetric and gynecologist
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Person responsible for updating data

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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