

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Aug 2026

Assessment of intrauterine injection of human Chorionic Gonadotropin (hcg) before transferring of Frozen-Thawed embryo on Implantation and clinical pregnancy rate

Protocol summary

Summary

The main objective of this study is assessment of intrauterine injection of Human Chorionic Gonadotropin (hCG) before transferring of frozen-thawed embryo on implantation and clinical pregnancy rate. This study was performed on patients admitted to Alzahra hospital, Tabriz, Iran. Women younger than 40 years who have frozen embryos are Grade A and B, has been Checked. Patients with a history of uterine surgery, recurrent abortions are excluded. This is a single-blind study. During transfer, patients were randomly divided into two groups, each consisting of 50. In the study group five thousand units of hCG in a vial with 0.4 ml of ISM1 mixed media and 40 microliter of which is equivalent to 500 IU hCG is injected through the catheter into the uterus. Seven minutes after the injection of hCG into the uterus, the fetus in the mother's age and general condition of figure, 2-3 embryos are transferred into the uterus. Abdominal ultrasound-guided embryo transfer catheter sterile ones Labotect, 1-1.5 cm in length is made through the uterine fundus. After embryo transfer, luteal phase support with progesterone vial 100 mg / day IM continues. BhCG test two weeks after embryo transfer is requested and if positive early vaginal ultrasound three weeks after embryo transfer. There gestational sac, fetal pole position and number of bags and the heart is examined embryos And progesterone administration continues to eleventh week of pregnancy.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014110612146N5**
Registration date: **2014-12-04, 1393/09/13**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-12-04, 1393/09/13

Registrant information

Name

Laaya Farzadi

Name of organization / entity

Woman's Reproductive Health Research Center of
Tabriz

Country

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research, Tabriz University Of Medical
Sciences

Expected recruitment start date

2014-11-19, 1393/08/28

Expected recruitment end date

2015-11-17, 1394/08/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of intrauterine injection of human Chorionic
Gonadotropin (hcg) before transferring of Frozen-Thawed
embryo on Implantation and clinical pregnancy rate

Public title

Assessment of intrauterine injection of human Chorionic Gonadotropin (hcg) before transferring of Frozen-Thawed embryo on Implantation and clinical pregnancy rate

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients younger than 40 years old who underwent treatment protocols for IVF (ISCT) however, due to the unsuitable conditions in their endometrium embryo transfer cycles done in fresh or pregnancy occurred; patients with frozen embryos. Exclusion criteria: patients with a history of uterine surgery; recurrent abortions; hydrosalpinges; endometriosis and endometriomas.

Age

To 40 years old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 100

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

Tabriz University of Medical Sciences

Street address

Golgasht Street ,Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Approval date

2014-10-09, 1393/07/17

Ethics committee reference number

93107

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

Positive Pregnancy Test

Timepoint

Two weeks after embryo transfer

Method of measurement

Test β hCG

Secondary outcomes

1

Description

Gestational sac

Timepoint

Three weeks after embryo transfer

Method of measurement

Primary vaginal ultrasound

2

Description

The number of bags

Timepoint

Three weeks after embryo transfer

Method of measurement

Primary vaginal ultrasound

3

Description

Fetal pole

Timepoint

Three weeks after embryo transfer

Method of measurement

Primary vaginal ultrasound

4

Description

Embryo heart

Timepoint

Three weeks after embryo transfer

Method of measurement

Primary vaginal ultrasound

Intervention groups

1

Description

In the intervention group, five thousand units of hCG in a vial with 0.4 ml of ISM1 mixed media and 40 microliter of which is equivalent to 500 IU hCG injected through the catheter into the uterus. Seven minutes after the injection of hCG into the uterine, depending on the age and general condition of the fetus figure 2-3 embryos are transferred into the uterus.

Category

Treatment - Drugs

2

Description

In the control group, if endometrial thickness to achieve eight millimeters or more injections of progesterone injected intramuscularly at a dose of fifty milligrams per day. Transfer Eight-cell embryo three days after receiving progesterone and received five days after blast cyst transfer is planned.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Dr. Farzadi Laaya

Street address

Alzahra Hospital, South Artesh Ave

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research, Tabriz University of Medical Sciences

Full name of responsible person

Dr. Alireza Rashidi

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

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, Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Farzadi Laaya

Position

Associate prof.

Other areas of specialty/work

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Person responsible for updating data

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Web page address**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