

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Determine predictive factors of embryo transfer on day 2 versus day 3 on intracytoplasmic sperm injection-embryo transfer cycles clinical outcomes.

Protocol summary

Summary

Objective: Determine predictive factors of embryo transfer on day 2 versus day 3 on intracytoplasmic sperm injection-embryo transfer cycles clinical outcomes. Design: Single center randomized clinical trial. Setting and conduct: Infertility & Reproductive Health Research Centre, Shahid Beheshti University of Medical Science, Thaleghani hospital. Participants: All of the assisted reproductive technology cycles including agonist and antagonist from the date of 21.3.2013 to 21.12.2014, three hundred fresh intracytoplasmic sperm injection-embryo transfer cycles were included. Women aged 20-40 years and they have normal endometrial thickness (7-12 millimeters) on embryo transfers day and they have neither any visible endometrial pathology nor have more than three failed previous intracytoplasmic sperm injection-embryo transfer cycles. Intervention: The embryo transfer in group I (control group) carried out on day3 and compared with embryo transfer on day2 (case group). Main outcome measure(s): Predicting factors, Clinical pregnancy rate, Ongoing pregnancy rate, Chemical pregnancy, Miscarriage rate, Fertilization rate, Implantation rate.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014121420306N1**
Registration date: **2015-01-02, 1393/10/12**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-01-02, 1393/10/12

Registrant information

Name

Shahrzad Zademodarras

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 5530 1452

Email address

shahrzad.modarres@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2014-12-21, 1393/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Determine predictive factors of embryo transfer on day 2 versus day 3 on intracytoplasmic sperm injection-embryo transfer cycles clinical outcomes.

Public title

Effect of Embryo transfers day on infertility treatment

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: women aged 20-40 years old undergoing fresh intracytoplasmic sperm injection-

embryo transfer cycles; have normal endometrial thickness (7-12 milimeters) on embryo transfers day; don't have any visible endometrial pathology; do not have more than three failed previous intracytoplasmic sperm injection-embryo transfer cycles. Exclusion criteria: abnormally shaped uterus in hysterosalpingography or hysteroscopy; have more than 3 previous failure of intracytoplasmic sperm injection-embryo transfer cycles .

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: **300**

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

2010-09-23, 1389/07/01

Ethics committee reference number

323

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

Predicting factors

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

Ongoing pregnancy rate

Timepoint

10weeks after embryo transfer

Method of measurement

History, physical exam, ultrasonography

3

Description

Miscariage rate

Timepoint

Until 24 weeks after start of intervention

Method of measurement

History, Physical exam, Ultrasonography

4

Description

Fertilization rate

Timepoint

After embryo development

Method of measurement

Labratory investigation

5

Description

implantation rate

Timepoint

Two weeks after embryo transfer

Method of measurement

History, Physical exam, Ultrasonography

Intervention groups

1

Description

Control group: The embryo transfer carried out on day3.

Category

Treatment - Other

2

Description

Intervention: Embryo transfer carried out on day2.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

IVF ward, Mahdieh hospital

Full name of responsible person

Marzieh Zamanian

Street address

Mahdieh hospital, Shoosh square, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shahid Beheshti University of Medical Science

Full name of responsible person

Zahra Sadeghzade

Street address

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

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Grant name

معاونت پژوهشی دانشگاه علوم پزشکی شهید بهشتی

Grant code / Reference number

-

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice chancellor for research, Shahid Beheshti 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

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

Full name of responsible person

Shahrzad Zadmodarres

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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Obstetric and gynecologist

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Other areas of specialty/work**Street address**

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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