

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

Effect of embryo transfer depth on IVF/ICSI outcome

Protocol summary

Study aim

The goal of successful embryo transfer is to transfer the atheroma of the embryos to a suitable location in the uterus, where there is the highest rate of implantation. It has been suggested that embryo transfer to the lower parts of the uterus cavity relative to the upper parts may increase the rate of implantation and pregnancy. This prospective study examines the effect of insertion of embryos on the uterus cavity on the implantation and post-pregnancy pregnancy. The fetus is evaluated under the guidance of abdominal ultrasound at a distance of 15 ± 5 mm and 25 ± 5 mm.

Design

Two arm parallel group randomized trial with blinded postoperative care and outcome assessment. Sample size was determined based on the formula, ninety samples were determined in each group

Settings and conduct

Research and Clinical Center for Infertility, Yazd

Participants/Inclusion and exclusion criteria

Among 20-39 years old participants with male factor, tubal factor, ovarian factor, unexplained or endometriosis will included. grade 3&4 endometriosis, and other protocol of ovarian stimulation were excluded.

Intervention groups

Group I 15 ± 5 mm and group II 25 ± 5 mm distance between catheter tip and the Fundal endometrial surface

Main outcome variables

Patient age Infertility duration Infertility etiology Groups
Chemical pregnancy Clinical pregnancy Implantation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190312043035N1**

Registration date: **2019-04-19, 1398/01/30**

Registration timing: **retrospective**

Last update: **2019-04-19, 1398/01/30**

Update count: **0**

Registration date

2019-04-19, 1398/01/30

Registrant information

Name

seyedeh mahsa poormosavi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 4242 9752

Email address

poormosavi.m@dums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2013-03-31, 1392/01/11

Expected recruitment end date

2015-04-01, 1394/01/12

Actual recruitment start date

2013-05-15, 1392/02/25

Actual recruitment end date

2015-07-23, 1394/05/01

Trial completion date

2015-11-01, 1394/08/10

Scientific title

Effect of embryo transfer depth on IVF/ICSI outcome

Public title

Embryo transfer depth in endometrium

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

20-39 years old participants Male factor, tubal factor, ovarian factor, mix

factor, unexplained, endometriosis Women undergoing

IVF/ICSI cycles

Exclusion criteria:

Other protocol of ovarian stimulation Grade 3&4 endometriosis

Age

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

Gender

Female

Phase

N/A

Groups that have been masked

- Participant
- Care provider
- Outcome assessor
- Data analyser

Sample size

Target sample size: **200**

Actual sample size reached: **180**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are divided on the day of the embryo transfer according to the random numbers table

Blinding (investigator's opinion)

Single blinded

Blinding description

The patient is not aware of the depths of fetus being abandoned in the uterus.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahid Sadoughi University of Medical Sciences

Street address

Bouali Ave., Safaeyeh, Yazd

City

yazd

Province

Yazd

Postal code

6461643981

Approval date

2012-03-15, 1390/12/25

Ethics committee reference number

3772

Health conditions studied

1

Description of health condition studied

Effect of embryo transfer depth on IVF/ICSI outcome

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Results of fertility assisted methods (pregnancy test result)

Timepoint

Two weeks after the intervention

Method of measurement

Hormone measurements, ultrasound

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The catheter is placed approximately 1 to 2 cm from the fundus of the uterus in the first group.

Category

N/A

2

Description

Intervention group: The catheter is positioned approximately 2 to 3 cm from the fundus of the uterus in the second group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Research Institute for Reproductive Sciences

Full name of responsible person

Seyedeh Mahsa Poormoosavi

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Bouali Ave., Safaeyeh

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Yazd

Full name of responsible person

Mohammad Ali Khalili

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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

Shahid Sadoughi University of Yazd

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Dezfoul University of Medical Sciences

Full name of responsible person

Seyedeh Mahsa Poormoosavi

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Embryology

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Person responsible for scientific inquiries

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Infertility

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Person responsible for updating data

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Other areas of specialty/work

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Email

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available