

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Analysis the effect of embryo transfer with its culture medium on the rate of implantation

Protocol summary

Study aim

Analysis the effect of embryo transfer with its culture medium on the rate of implantationmedia

Design

Have control group, Non-randomized specificity, parallel groups and Not blinded With 25 people in control group and 25 people in target group. The allocation of individuals in groups is voluntary. Therefore, people who are want to participate in this study with written consent will be placed in the first group and their embryos will be transfer with the around embryo culture media. In the control group, the embryos will be routinely transmit.

Settings and conduct

In this study, after in-vitro fertilization and embryo culture within droplets of the medium, embryo transfer(ET) was performed in two groups with two different methods. in the first group ET with the surrounding culture medium(15 micro-liter) and the other without embryo culture medium (routine ET). then rate of implantation in the groups evaluated.

Participants/Inclusion and exclusion criteria

inclusion Criteria: Age 18 to 35 years, tubal factor infertility, $20 < \text{BMI} < 28$ exclusion criteria: Severe endometriosis, Hydrosalopinx, Hormonal disorders, severe poly cystic ovary (PCO), Acute pelvic infections, uterus anatomical abnormalities

Intervention groups

the first group, embryo transfer with its culture medium that developed in it The control group, perform embryo transfer with routine manner, after the transfer of the embryo to the fresh environment in the transfer plate.

Main outcome variables

implantation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180630040286N1**

Registration date: **2019-03-13, 1397/12/22**

Registration timing: **registered_while_recruiting**

Last update: **2019-03-13, 1397/12/22**

Update count: **0**

Registration date

2019-03-13, 1397/12/22

Registrant information

Name

Sadeq Eivazi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 26 3671 0429

Email address

eyvazi.s@tak.iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-08-23, 1397/06/01

Expected recruitment end date

2019-04-21, 1398/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Analysis the effect of embryo transfer with its culture medium on the rate of implantation

Public title

Analysis the effect of embryo transfer with its culture

medium on the rate of implantation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

tubal factor infertility BMI between 20-28 age between 18-35 years old

Exclusion criteria:

Severe endometriosis Hydrosalpinx Hormonal disorders
Severe PCO Acute pelvic infections Uterus anatomical abnormalities

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **25**

Randomization (investigator's opinion)

Not 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

Ethics committee of Iran University of Medical Sciences

Street address

Hemmat Highway

City

Tehran

Province

Tehran

Postal code

۱۳۴۹۶۱۴۵۳۵

Approval date

2018-08-26, 1397/06/04

Ethics committee reference number

IR.IUMS.REC.1397.260

Health conditions studied

1

Description of health condition studied

Embryo implantation

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

embryo implantation

Timepoint

At the beginning of the study and 14 days after the embryo transfer

Method of measurement

ELISA

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Women whose embryo transfer together with the environment culture medium around the embryo

Category

Treatment - Other

2

Description

Control group: Women whose embryo transfer performed with routine method, after the transfer of embryo to the transmission medium.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Akbar Abadi Hospital

Full name of responsible person

Fatemeh sadat Amjadi

Street address

Mowlavi St, Shahid Akbarabadi Hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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Full name of responsible person
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reaserch@iums.ac.ir

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Iran University of Medical Sciences
Proportion provided by this source
50
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

2

Sponsor

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Dr. Tayebah Artimani
Street address
Daneshgah-e-Bu Ali Sina, Hamedan, Hamadan Province
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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
Hamedan University of Medical Sciences
Proportion provided by this source
50
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
Iran University of Medical Sciences
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Position
Phd student
Latest degree
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Reproductive Biology
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Person responsible for updating data

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Latest degree

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Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Not more info

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

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

Not applicable

Title and more details about the data/document

publishing article

When the data will become available and for how long

After publish the article

To whom data/document is available

Only for researchers working in academic and scientific institutions

Under which criteria data/document could be used

In order to treat people with infertility

From where data/document is obtainable

Through information databases

What processes are involved for a request to access data/document

The data will be available only after the article publication

Comments