

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

02 Jul 2026

### Effects of stimulation of endometrium before embryo transfer on pregnancy rates in patients undergoing assisted reproduction

#### Protocol summary

##### Summary

This is a randomized clinical trial which has two groups: In control group there are 45 women. The control group will have blastocyst transfer at the 20th day of cycle. In the intervention group there are 45 women. This group will have 20µl of embryo culture medium (Blast Assist System2) injected into the uterine cavity at 17th day of cycle and then at the 20th day Blastocyst is transferred. This media is derived from media culture that the best embryos are cultured. At the 2nd day of culture the best embryos transferred to another media and are cultured till 5th day. The embryo culture medium injection is performed transcervically into the uterus using Cook IVF catheter. The catheter, loaded with 20 µl of embryo culture medium is inserted into uterine cavity and embryo is released. The tip of the catheter is about 1 cm from the fundus of the uterine cavity. Implantation rates and pregnancy rates will be evaluated.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138902232576N2**

Registration date: **2010-09-09, 1389/06/18**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2010-09-09, 1389/06/18

##### Registrant information

###### Name

Fatemeh Davari Tanha

###### Name of organization / entity

Tehran University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 8831 3955

###### Email address

fdavaritanha@sina.tums.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Tehran university medical sciences, TEHRAN, IRAn

##### Expected recruitment start date

2009-09-01, 1388/06/10

##### Expected recruitment end date

2010-08-01, 1389/05/10

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effects of stimulation of endometrium before embryo transfer on pregnancy rates in patients undergoing assisted reproduction

##### Public title

Effects of stimulation of endometrium before embryo transfer on pregnancy rates in patients undergoing assisted reproduction

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: All women with infertility who refer to infertility clinic of Valiasr reproductive health research center, age 20-38, infertility < 10y Exclusion criteria: Age > 38, Hydrosalpinx, FSH > 10, History of IVF failure

##### Age

From **20 years** old to **39 years** old

##### Gender

Female

**Phase**

3

**Groups that have been masked***No information***Sample size**Target sample size: **90****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**

Ethics committee of Tehran university of medical sciences

**Street address**

Tehran university medical sciences, 6th floor, Central Building of Tehran University of Medical Sciences, Keshavarz Boulevard, Ghods Avenue

**City**

TEHRAN

**Postal code****Approval date**

2009-11-12, 1388/08/21

**Ethics committee reference number**

9725

**Health conditions studied****1****Description of health condition studied**

Infertility

**ICD-10 code**

N97

**ICD-10 code description**

Female infertility

**Primary outcomes****1****Description**

Chemical pregnancy

**Timepoint**

After 14 days of embryo transfer

**Method of measurement**

B-hcG

**Secondary outcomes****1****Description**

Clinical pregnancy

**Timepoint**

13 weeks

**Method of measurement**

Trans vaginal sonography

**Intervention groups****1****Description**

Intervention: Media that blastocyst has developed on it inserted via transcervical in 17th day and then blastocyst transfer is in 20th day

**Category**

Treatment - Other

**2****Description**

Control: blastocyst transfer is done at 20th day of cycle without media transfer on 17th day

**Category**

N/A

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Valiasr reproductive health research center

**Full name of responsible person**

Fatemeh Davari Tanha

**Street address**

Women's hospital, Ostad Nejatollahi Shomally Avenue, Karim khan Zand bridge

**City**

Tehran

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Tehran university of medical sciences

**Full name of responsible person**

Pegahe Aslanpour

**Street address**

Tehran university of medical sciences - research administrator

**City**

Tehran

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

Yes

**Title of funding source**  
Tehran 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**  
Tehran university of medical sciences

**Full name of responsible person**  
Fatemeh Davari Tanha

**Position**  
Assistant professor

**Other areas of specialty/work**

**Street address**  
Women's hospital, Ostad Nejatollahi Shomally  
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## Person responsible for scientific

## inquiries

### Contact

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Tehran university of medical sciences

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**Web page address**

## Person responsible for updating data

### Contact

## 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*