

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jun 2026

The effect of endometrial compression on pregnancy rate in embryo transfer cycles in infertile women IVF candidate of Imam Khomeini Hospital in Tehran in 2020-2021.

Protocol summary

Study aim

The aim of this study is to evaluate the effect of progesterone on endometrial thinning and the outcome of chemical I pregnancy; in embryo transfer cycles .

Design

A clinical trial with the control group, with parallel groups, phase 3 on 41 patients .

Settings and conduct

This study investigates the effect of progesterone endometrial thinning and the outcome of chemical pregnancy in embryo transfer cycles on 41 IVF and embryo transfer patients in two intervention and control groups referred to a university hospital. Before and after vaginal progesterone administration. The degree of change in endometrial thickness is measured by vaginal ultrasound.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Endometrial thickness is greater than or equal to 7 at the vaginal ultrasound, age less than 50 years, no underlying disease, first or second embryo transfer. Exclusion criteria: Uterine factor (adhesion; fibroids; polyps), smoking

Intervention groups

Intervention group: Candidate patients for IVF cycle who have vaginal progesterone suppository; They received 800 mg daily for 5 days. Control group: Patients who are in the fetal transfer cycle on the last day before the start of progesterone and have not yet received progesterone.

Main outcome variables

Rate of change in endometrial thickness; Chemical pregnancy rate .

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180624040214N3**

Registration date: **2021-06-29, 1400/04/08**

Registration timing: **prospective**

Last update: **2021-06-29, 1400/04/08**

Update count: **0**

Registration date

2021-06-29, 1400/04/08

Registrant information

Name

Mina Jafarabadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6658 1616

Email address

jafarabadi@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-07-06, 1400/04/15

Expected recruitment end date

2022-01-15, 1400/10/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of endometrial compression on pregnancy rate in embryo transfer cycles in infertile women IVF candidate of Imam Khomeini Hospital in Tehran in

2020-2021.

Public title

The effect of endometrial compaction on the occurrence of pregnancy.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Endometrial thickness greater than or equal to seven at the time of vaginal ultrasound
Age less than 50 years
Absence of underlying diseases
The first or second embryo transfer IVF candidate

Exclusion criteria:

Uterine factor (adhesion; fibroid; polyps)
Being a smoker

Age

From **18 years** old to **50 years** old

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **41**

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 Imam Khomeini Hospital

Street address

Research Development Building, Imam Khomeini Hospital Complex, Keshavarz Blvd.

City

Tehran

Province

Tehran

Postal code

1419733141

Approval date

2020-10-14, 1399/07/23

Ethics committee reference number

IR.TUMS.IKHC.REC.1399.273

Health conditions studied

1

Description of health condition studied

Female infertility

ICD-10 code

N97.2

ICD-10 code description

Female infertility of uterine origin

Primary outcomes

1

Description

Endometrial thickness change

Timepoint

Immediately before and one week after taking progesterone.

Method of measurement

Vaginal Sonography

Secondary outcomes

1

Description

Occurrence of chemical pregnancy

Timepoint

Two weeks after embryo transfer

Method of measurement

Blood Test

Intervention groups

1

Description

Intervention group: Candidate patients for IVF who underwent vaginal progesterone suppository for 5 days
They receive 800 mg daily.

Category

Treatment - Drugs

2

Description

Control group: Candidate patients for IVF cycle who did not receive progesterone suppository.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Vali-Asr Infertility Clinic

Full name of responsible person

Mina Jafarabadi
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Vali-Asr Infertility Clinic, Imam Khomeini Hospital
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Sponsors / Funding sources

1

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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

Tehran University of Medical Sciences

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

Tehran University of Medical Sciences
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Position
Associate Professor
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Person responsible for updating data

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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

patients privacy

Study Protocol

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

Statistical Analysis Plan

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

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

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

Data Dictionary

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