Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 l 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
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Iran (Islamic Republic of)
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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

Street address
Vali-Asr Infertility Clinic, Imam Khomeini Hospital Complex, Keshavarz Blvd.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
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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

Full name of responsible person
Mina Jafarabadi

Position
Associate Professor

Latest degree
Subspecialist

Other areas of specialty/work
Gynecology and Obstetrics

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Researcher

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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