

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

The effect of endometrial peeling of uterine cavity on the success rate of IVF in women with a history of implantation failure

Protocol summary

Study aim

Evaluation of endometrial peeling on success rate of IVF in recurrent implantation failure in Yas Hospital

Design

A randomized, single-blind clinical trial, with two parallel groups, sample size 64; randomization using lottery method without replacement

Settings and conduct

In a randomized blinded clinical trial 64 patients with recurrent implantation failure in Yas hospital, will be allocated in resectoscopy for peeling endometrium (case group) or hysteroscopy for scratching endometrium (control group).

Participants/Inclusion and exclusion criteria

Inclusion criteria: age < 40; FSH <12; normal uterine cavity in vaginal ultrasound; normal hysterosalpingography. Exclusion criteria: any lesion at hysteroscopy; absence of at least two good quality embryos.

Intervention groups

Intervention group: endoscopy and endometrial peeling.
Control group: hysteroscopy and endometrial abrasion.

Main outcome variables

Chemical pregnancy

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20091012002576N24**

Registration date: **2022-02-17, 1400/11/28**

Registration timing: **registered_while_recruiting**

Last update: **2022-02-17, 1400/11/28**

Update count: **0**

Registration date

2022-02-17, 1400/11/28

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

Expected recruitment start date

2022-01-28, 1400/11/08

Expected recruitment end date

2023-03-14, 1401/12/23

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of endometrial peeling of uterine cavity on the success rate of IVF in women with a history of implantation failure

Public title

The effect of endometrial peeling on the success rate of recurrent implantation failure

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

FSH<12 Normal uterus in transvaginal sonogram Normal hysterosalpingography History of implantation failure

Exclusion criteria:

Any lesion in the uterine cavity in hysteroscopy Less than two good quality embryos

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

Gender
Female

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **64**

Randomization (investigator's opinion)
Randomized

Randomization description
Random allocation rule: At first, on special unmarked papers, 32 A letters and 32 B letters are written. Then all are placed in a bag and for each patient, after obtaining informed consent, a paper is removed randomly without replacement. Based on the letter written on it, the intended intervention is performed on the patient. In addition, interventions A (endometrial peeling) or B (control group) are determined by lottery.

Blinding (investigator's opinion)
Single blinded

Blinding description
Patients are blinded regarding allocation in case or control group.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethical Committee of Tehran University of Medical Sciences

Street address
Yas Hospital North nejatollahi avenue, Karim khan zand Bridge, Villa street

City
Tehran

Province
Tehran

Postal code
159781597878

Approval date
2022-01-29, 1400/11/09

Ethics committee reference number
IR.TUMS.MEDICINE.REC.1400.1264

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97.8

ICD-10 code description

Female infertility of other origin

Primary outcomes

1

Description

Chemical pregnancy

Timepoint

Two weeks after embryo transfer

Method of measurement

BhCG mu/dl

Secondary outcomes

1

Description

Clinical pregnancy

Timepoint

Four weeks after embryo transfer

Method of measurement

Visualisation of fetal heart beat at vaginal ultrasound

Intervention groups

1

Description

Intervention group: Peeling of endometrium by resectoscopic loop catheter without electrical energy in 32 patients

Category

Treatment - Surgery

2

Description

Control group: Scratching of endometrium by hysteroscopy

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Yas hospital

Full name of responsible person

Fatemeh Davari Tanha

Street address

Yas hospital, North Nejatollahi avenue, Karim khan
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Email

Fatedavtanha@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mis.Ahmadi

Street address

Fifth floor-central building of Tehran University of
Medical sciences, Ghods avenue-Keshavarz

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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

Fatemeh Davari Tanha

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

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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

There is no further information.

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