

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jun 2026

The Effect of Endometrial Scratch on the Results of Ovulation Induction Cycles in Patients with Recurrent Failure

Protocol summary

Study aim

Investigation of the Effects of Endometrial Scratch on the Outcomes of Ovulation Induction Cycles in Patients with Recurrent Failure

Design

Clinical Trial on 45 Patients

Settings and conduct

In the present study, endometrial scratch is carried out in 45 women referred to Bam Infertility Clinic with at least three failed cycles of ovulation induction. The pregnancy rates will be reported and there is no control group. Data collection is carried out using a researcher-made checklist including demographic variables (age, occupation, history of previous medical conditions, duration of infertility) and research-specific variables including chemical pregnancy (BHCG level of higher than 200 within two weeks after a missed period), clinical pregnancy rate, pregnancy sac and fetal heart seen on ultrasound three weeks after BHCG test), and abortion (based on bleeding before the 20th week of pregnancy).

Participants/Inclusion and exclusion criteria

Infertile women with at least 3 failed ovulation induction cycles, Normal semen analysis, Between 15 and 40 years old, Ultrasound results indicating no uterine abnormalities and at least 10 antral follicles, No previous abdominal surgery, No severe PCO

Intervention groups

Endometrial scratch is performed by pipelle in patients referred to the infertility clinic, meeting inclusion criteria on days 21-26 of menstrual cycles.

Main outcome variables

Clinical Pregnancy Rate, Chemical Pregnancy Rate, Abortion Rate

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120207008948N2**

Registration date: **2021-10-16, 1400/07/24**

Registration timing: **registered_while_recruiting**

Last update: **2021-10-16, 1400/07/24**

Update count: **0**

Registration date

2021-10-16, 1400/07/24

Registrant information

Name

Sakineh Ebrahimipour

Name of organization / entity

Kerman University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-08-23, 1400/06/01

Expected recruitment end date

2022-03-20, 1400/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Endometrial Scratch on the Results of Ovulation Induction Cycles in Patients with Recurrent Failure

Public title

Effect of Endometrial Scratch in Induction Ovulation Cycles

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Infertile Women with at Least 3 Failed of Ovulation Induction Cycles Normal Semen Analysis Between 15 and 40 Years Old Age At Least 10 Antral Follicles Normal Ultrasonography of Uterine

Exclusion criteria:

Endometrial Abnormality in Ultrasonography Less than 10 Antral Follicles in Ultrasonography Previous Abdominal Surgery

Age

From **15 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **45**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Bam University of Medical Sciences

Street address

Bam University of Medical Sciences, Khalije Fars Ave, Bam Town

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Bam

Province

Kerman

Postal code

7661771967

Approval date

2021-08-10, 1400/05/19

Ethics committee reference number

IR.MUBAM.REC.1400.043

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 Rate

Timepoint

2 Weeks After Missed Period

Method of measurement

Blood Beta HCG

Secondary outcomes

1

Description

Clinical Pregnancy Rate

Timepoint

3 Weeks After Positive Blood Beta HCG

Method of measurement

Ultrasonography

Intervention groups

1

Description

Intervention Group: In infertile women with at least three periods of unsuccessful ovulation induction, endometrial scratch is performed by the pipelle in the second half of the menstrual cycle on days 21-26, and the success rate of pregnancy in the next cycle is evaluated.

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Bam Infertility Center

Full name of responsible person

Dr. Yasamin Mehrolhasani

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Pasargad Clinic, Emam Khomeini St, Bam Town

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Sponsors / Funding sources

1

Sponsor

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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

Bam 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
Bam University of Medical Sciences
Full name of responsible person
Dr Yasamin Mehrolhasani
Position
Professor
Latest degree
Subspecialist
Other areas of specialty/work

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

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