

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Effect of endometrial scratching on intra uterine insemination outcome in infertile couples in controlled ovarian stimulation cycles

Protocol summary

Study aim

Evaluation the effect of endometrial scratching on intra-uterine insemination outcome among infertile couples in controlled ovarian stimulation cycles

Design

Randomized trial with control group, with parallel group design

Settings and conduct

This study will be done at the infertility center of Hazrat Zeynab Hospital.

Participants/Inclusion and exclusion criteria

Inclusion criteria:18-42 year old women; normal uterine cavity; BMI <35 kg/m2. Exclusion criteria :any maternal underlying diseases

Intervention groups

Intervention group: Endometrial scratching 48 hours before IUI. Control group: Not having endometrial scratching 48 hours before IUI.

Main outcome variables

Clinical pregnancy rate, Chemical pregnancy rate

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190409043212N1**

Registration date: **2019-06-30, 1398/04/09**

Registration timing: **registered_while_recruiting**

Last update: **2019-06-30, 1398/04/09**

Update count: **0**

Registration date

2019-06-30, 1398/04/09

Registrant information

Name

Sara Davoodi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Email address

sdavoodi9798@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-15, 1398/03/25

Expected recruitment end date

2020-02-09, 1398/11/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of endometrial scratching on intra uterine insemination outcome in infertile couples in controlled ovarian stimulation cycles

Public title

Effect of endometrial scratching on IUI outcome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Being at the age of 18-42 years old Normal uterine cavity, without any endometrial polyp or lesion BMI < 35 kg/m2

Exclusion criteria:

Maternal underlying disease

Age

From **18 years** old to **42 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **243**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization :patients who has frozen embryo will be randomized based on the randomization table derived from the site: www.randomization.org.

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 Shiraz University of Medical Science

Street address

Vice Chancellor of research, Shiraz University of Medical Sciences, 7th floor, central building of Shiraz University of Medical Sciences, Zand street

City

Shiraz

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Postal code

7134844119

Approval date

2019-02-20, 1397/12/01

Ethics committee reference number

IR.SUMS.REC.1398.146

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

Infertility patients going IUI cycle

ICD-10 code

N97

ICD-10 code description

Female infertility

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

Clinical pregnancy rate

Timepoint

2 months after embryo transfer

Method of measurement

Ultrasonography

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

Chemical pregnancy rate

Timepoint

14 days after transferring the embryo

Method of measurement

Pregnancy Test

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

Intervention group: Endometrial scratching 48 hours before IUI

Category

Treatment - Other

2**Description**

Control group: Not endometrial scratching 48 hours before IUI

Category

Treatment - Other

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

Hazrate Zeinab Hospital

Full name of responsible person

Sara Davoodi

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

Shiraz University of Medical Sciences

Full name of responsible person

Dr. Younes Ghasemi

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Vice chancellor of research, 7th floor of central building of Shiraz University of Medical Sciences, Zand street

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nabarresh1@sums.ac.ir

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

Yes

Title of funding source

Shiraz 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**

Shiraz University of Medical Sciences

Full name of responsible person

Sara Davoodi

Position

Infertility fellowship

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Full name of responsible person

Sedighe Amooee

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Person responsible for updating data**Contact****Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

Sara Davoodi

Position

Infertility fellowship

Latest degree

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Email

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

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

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

Hormonal data, ovarian stimulation data, pregnancy outcome

When the data will become available and for how long

Six months after acceptance of paper

To whom data/document is available

People who want to do work in this field and have scientific documentation can use this document.

Under which criteria data/document could be used

Valid scientific individuals by presenting relevant documents

From where data/document is obtainable

An email to corresponding author

What processes are involved for a request to access data/document

Accepting permission from the Shiraz University of Medical Sciences's security ward and confirming the receipt of the file

Comments