

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

The effect of endometrial scratch on pregnancy rate in IUI cycles

Protocol summary

Summary

The aim of this study is the effect of endometrial scratch on pregnancy rate in IUI cycles. 150 infertile women that they are candidate for IUI and referred to Alzahra hospital after the initial history taking and having the proper Like ovulatory dysfunction mild, Impaired semen fluid parameters, mild endometriosis will be studied. The patients who had significant abnormalities of the uterus and pelvic will be excluded. Patients will be divided into two groups 75 people. The control group, patients who underwent IUI. The endometria will be without a scratch. In intervention group, patients who underwent IUI with endometrial scratch using a catheter or biopsy pipelle days 1 to 5 of the menstrual cycle will coincide with basic ultrasound. Using sterile speculum cervical opening and the cervix will be cleaned with sterile gauze soaked in iodine. With a thin catheter, endometrial gently moves up and down 2 times for anterior and posterior wall of the uterus, will scratch. Ovulation stimulation will be similar in the 2 groups. Ovulation induction performed with the injection of 100 mg clomiphene in days three to five of the menstrual cycle for 5 days and injection (HMG merional or menogon 75 mg), 3 to 4 times with 7 to 10 cycle interval. Patients will be visited in 11 or 12 days and transvaginal ultrasound will be performed to check follicle growth. When follicles reach 20-18 mm, AMP HCG (5000 - 10000 units) will be injected intramuscularly. 36 hours later IUI will be done. Luteal phase will be supported with the administration of 10 mg for 14 days. Successful pregnancy as the primary outcome will be assessed. The abortion as a secondary outcome will be assessed and followed up.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016110213566N7**

Registration date: **2016-12-19, 1395/09/29**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-12-19, 1395/09/29

Registrant information

Name

Kobra Hamdi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1554 1221

Email address

hamdik@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

vice chancellor of research, Tabriz University of Medical Sciences

Expected recruitment start date

2016-11-30, 1395/09/10

Expected recruitment end date

2017-09-11, 1396/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of endometrial scratch on pregnancy rate in IUI cycles

Public title

Pregnancy success rate in IUI cycles with or without endometrial scratch

Purpose

Treatment

Inclusion/Exclusion criteria

Encloses Criteria: Infertile women 20 to 35 years; Women undergoing IUI
Exclusion criteria: The patient's age over 35 years; Cervical Lesions; Pelvic Endometriosis; Unilateral fallopian tube obstruction; Women with a body mass index above 35; Severe impairment semen

Age

No age limit

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **150**

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 Tabriz University Of Medical Sciences.

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

Postal code

Approval date

2016-10-20, 1395/07/29

Ethics committee reference number

IR.TBZMED.REC.1395.793

Health conditions studied

1

Description of health condition studied

Female Infertility

ICD-10 code

N97

ICD-10 code description

Female infertility

Primary outcomes

1

Description

Pregnancy

Timepoint

Two weeks after IUI

Method of measurement

Ultrasound and tests

Secondary outcomes

1

Description

The abortion

Timepoint

Up to 3 months after IUI

Method of measurement

Observation and sonography

Intervention groups

1

Description

The control group consists of patients who underwent IUI without endometrial scratch.

Category

Treatment - Other

2

Description

Group Intervention: Patients who underwent IUI or pipelle with scratch endometrial biopsy during days 1 to 5 of the menstrual cycle with basic ultrasound .

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

DR.Hamdi Kobra

Street address

Alzahra Hospital, South Artesh St., Tabriz, iran

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research, Tabriz University Of Medical Sciences

Full name of responsible person

Dr. Alireza Rashidi

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

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

Yes

Title of funding source

Vice chancellor for Research, Tabriz University Of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries

Contact**Name of organization / entity**

Tabriz University Of Medical Sciences

Full name of responsible person

Hamdi Kobra

Position

Associate Professor of Obstetrics and Gynecology

Other areas of specialty/work**Street address**

Tabriz University Of Medical Sciences, Golgasht Street

City

Tabriz

Postal code**Phone**

+98 41 3553 9161

Fax**Email**

lahroudin@gmail.com

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Tabriz University Of Medical Sciences

Full name of responsible person

Kobra Hamdi

Position

Associate Professor of Obstetrics and Gynecology

Other areas of specialty/work**Street address**

Tabriz University Of Medical Sciences, Golgasht Street

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+98 41 3553 9161

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Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Tabriz University Of Medical Sciences

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Fax**Email****Web page address**

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty