Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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 refered 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 perform 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 support 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

City
Tabriz

Postal code

Phone
+98 41 3553 9161

Fax

Email
lahroudin@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity
Tabriz University Of Medical Sciences

Full name of responsible person
Kobra Hamdi

Position
Associate Professor of Obstetrics 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

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