

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

The effect endometrial thickening with Medroxyprogesterone Acetate on pregnancy rate in the women with recurrent implantation failure

Protocol summary

Summary

Objective: The impact of increased endometrial thickness with medroxyprogesterone acetate on pregnancy rate in the women with unexplained infertility or recurrent implantation failure. Design: before-after clinical trial. Setting and conduct: infertility clinics of Tabriz University; before intervention, blood tests such as serum progesterone concentration on day 21 of the menstrual cycle, FSH third day, AMH and testing Gravindex to ensure women in the study are not pregnant, as well as the transvaginal ultrasound to determine endometrial thickness were performed and will be recorded. the women will receive 5 mg oral Medroxyprogesterone acetate twice a day. then Gravindex test and transvaginal ultrasound are done to determine endometrial thickness. if the Gravindex test is positive, the drug will be gradually cut. If the test result is negative the drug to be completely cut off until menstruation occurs. Participants: women with unexplained infertility or recurrent implantation failure (RIF). Inclusion criteria: women aged 20-40; willingness to participate in the study; lack of pregnancy in inclusion time; endometrial thickness less than 8 millimeter by trans vaginal ultrasound; minimum of 1 year unexplained infertility history or more than 3 times of recurrent implantation failure; normal semen analysis according to WHO criteria. Exclusion criteria: willingness to use assisted reproductive technology; use of hormones in 1 month ago; polycystic ovarian syndrome. Sample size: 23 persons. Intervention: the women will receive 5 mg oral Medroxyprogesterone acetate twice a day from the 16th day of menstruation for 20 days. Main outcome: endometrial thickness; pregnancy rate; relationship between endometrial thickness and pregnancy rate.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017020227311N3**

Registration date: **2017-04-04, 1396/01/15**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-04-04, 1396/01/15

Registrant information

Name

Behnaz Sadeghzadeh Oskouei

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3479 0364

Email address

sadeghzadehb@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2017-03-19, 1395/12/29

Expected recruitment end date

2017-04-18, 1396/01/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect endometrial thickening with Medroxyprogesterone Acetate on pregnancy rate in the

women with recurrent implantation failure

Public title

The effect endometrial thickening with Medroxyprogesterone Acetate on pregnancy rate in the women with recurrent implantation failure

Purpose

Treatment

Inclusion/Exclusion criteria

women aged 20-40: willingness to participate in the study: lack of pregnancy in inclusion time: endometrial thickness less than 8 millimeter by trans vaginal ultrasound: minimum 1 year unexplained infertility history or more than 3 times of repeated failure of implantation : normal semen analysis according to WHO criteria. Exclusion criteria: willingness to use assisted reproductive technology: use of hormones in 1 month ago: debilitating disease of the ovary such as polycystic ovarian syndrome.

Age

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

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **23**

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 Tabriz University of Medical Sciences

Street address

Research department, third floor, central construction number 2, Tabriz University of Medical Sciences, Golgasht Street, Azadi Avenue,

City

Tabriz

Postal code

Approval date

2017-01-09, 1395/10/20

Ethics committee reference number

IR.TBZMED.REC.1395.1062

Health conditions studied

1

Description of health condition studied

Female infertility

ICD-10 code

N97.2

ICD-10 code description

Female infertility of uterine origin, Nonimplantation of ovum

Primary outcomes

1

Description

endometrial thickness

Timepoint

Before intervention and after intervention

Method of measurement

Transvaginal ultrasound

2

Description

Pregnancy rate

Timepoint

After intervention

Method of measurement

Gravindex test and transvaginal ultrasound

3

Description

Relationship between endometrial thickness and pregnancy rate

Timepoint

Before and after intervention

Method of measurement

Gravindex test and transvaginal ultrasound

Secondary outcomes

empty

Intervention groups

1

Description

5 mg oral Medroxyprogesterone acetate twice a day for twenty days from 16th day of menstruation

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

AlzahraTherapeutic Educational Center

Full name of responsible person

Dr. Behnaz Sadeghzadeh Oskuei

Street address

Baghshmal Intersection, South Army Street, Tabriz

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. Mohammad Reza Rashidi

Street address

Research department, third floor, central construction number 2, Tabriz University of Medical Sciences, Golgasht Street, Azadi Avenue

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

Faculty of Nursing & Midwifery, Tabriz University of Medical Sciences

Full name of responsible person

Dr. Behnaz Sadeghzadeh Oskuei

Position

Assistante Professor, PhD Biology of Reproductive Medicine

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

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Person responsible for scientific inquiries

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Full name of responsible person

Dr. Behnaz Sadeghzadeh Oskuei

Position

Assistante Professor, PhD Biology of Reproductive Medicine

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Web page address

<http://nursing.tbzmed.ac.ir>

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