Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 milimeter 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 Univercity 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 interventin

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

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Person responsible for scientific 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

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Person responsible for updating data

Contact

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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