

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jul 2026

Comparison between the success rate of standard method vs dose-dependent ovarian electrocautery in patients with Polycystic ovary syndrome

Protocol summary

Study aim

To compare the success rate of standard method vs dose-dependent ovarian electrocautery in patients with Polycystic ovary syndrome

Design

In this study, 60 women with polycystic ovary syndrome who had the inclusion criteria and were interested to participate in the study, were randomly divided into two groups: the standard ovarian electrocautery group and the dose-dependent ovarian electrocautery group. The allocation of patients to groups will be based on a random number table.

Settings and conduct

Imam Reza Hospital, Mashhad The patients are blind about their surgery type.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age: 18-38; Infertile women (duration more than 2 year) with polycystic ovarian syndrome; Cause of infertility: disorder of ovulation; Normal semen analysis in partner; Normal hysterosalpingography and laparoscopy; Interested for participation; Resistance to Clomiphene citrate. Exclusion criteria: Other cause of infertility.

Intervention groups

dose-dependent ovarian electrocautery in patients with polycystic ovary syndrome (As intervention group), Standard ovarian electrocautery in patients with polycystic ovary syndrome (As control group)

Main outcome variables

Ovulation rate or pregnancy

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171210037820N1**

Registration date: **2018-01-02, 1396/10/12**

Registration timing: **registered_while_recruiting**

Last update: **2018-01-02, 1396/10/12**

Update count: **0**

Registration date

2018-01-02, 1396/10/12

Registrant information

Name

Ghazal Ghasemi Torshizi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3223 1444

Email address

ghasemitg931@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2017-12-22, 1396/10/01

Expected recruitment end date

2018-05-20, 1397/02/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between the success rate of standard method vs dose-dependent ovarian electrocautery in patients with Polycystic ovary syndrome

Public title

Comparison between the success rate of standard method vs dose-dependent ovarian electrocautery in polycystic ovary syndrome

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Age: 18-38, Infertile women (duration more than 2 year) with polycystic ovarian syndrome cause of infertility: disorder of ovulation Normal semen analysis in partner Normal hystrosalpangography and laparoscopy Interested for participation Resistance to Clomiphene citrate
Exclusion criteria:
Other cause of infertility

Age
From **18 years** old to **38 years** old

Gender
Female

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

Randomization description
Random number table

Blinding (investigator's opinion)
Single blinded

Blinding description
The patients are blind about their surgery type.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Mashhad University of Medical Sciences
Street address
Qoreishi Building, Daneshgah Street.
City
Mashhad
Province
Razavi Khorasan
Postal code
91388-13944
Approval date

2016-10-26, 1395/08/05
Ethics committee reference number
IR.MUMS.fm.REC.1395.335

Health conditions studied

1

Description of health condition studied
Infertility
ICD-10 code
N97.0
ICD-10 code description
Female infertility associated with anovulation

Primary outcomes

1

Description
Ovulation rate or pregnancy
Timepoint
every month up to 6 months
Method of measurement
Observing ovulation signs in serial transvaginal sonography or pregnancy

2

Description
Measuring progesterone level at 21th day of menstrual cycle
Timepoint
21th day of first menstrual cycle after surgery
Method of measurement
According to level (ng/ml) / ELISA (Enzyme-linked immunosorbent assay) method

3

Description
LH, testosterone, and DHEAS serum level
Timepoint
Third day of first menstrual cycle after surgery
Method of measurement
According to LH (IU/ml) and testosterone (ng/dl) and DHEAS (µg/dl) level / ELISA (Enzyme-linked immunosorbent assay) method

Secondary outcomes
empty

Intervention groups

1

Description
Intervention group: dose-dependent ovarian electrocautery
Category
Treatment - Surgery

2

Description

Control group: standard ovarian electrocautery

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital

Full name of responsible person

Leili Hafizi

Street address

Ibn-e-Sina street

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Mashhad

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Razavi Khorasan

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9137913316

Phone

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Email

hafizil@mums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Vice chancellor of Research Deputy, Mashhad University of Medical Sciences

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Qoreighi Building, Daneshgah Street.

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vcresearch@mums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Mashhad 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

Mashhad University of Medical Sciences

Full name of responsible person

Leili Hafizi

Position

Assistant professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Ibn-e-Sina Street, Emam Reza Hospital, Obstetrics & Gynecology department

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Leili Hafizi

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for updating data

Contact

Name of organization / entity

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Ghazal Ghasemi Torshizi

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Not applicable

Title and more details about the data/document

All anonymous data are shareable.

When the data will become available and for how long

One year after publication

To whom data/document is available

Academic Researchers

Under which criteria data/document could be used

For meta-analysis study

From where data/document is obtainable

Email address

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

After email reception

Comments