Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The effects of intraovarian platelet rich plasma injection on infertile women with poor ovarian response in Yas Hospital and evaluation of ovarian response to next IVF cycle

Protocol summary

Study aim
Investigation of the effects of intraovarian platelet rich plasma injection on infertile women with poor ovarian response

Design
This clinical trial is studied on 20 women with convenience sampling after consulting the patient and her partner.Each patient's response will be compared with the previous own IVF cycle.

Settings and conduct
This study is going to be conducted at Yas Hospital on the women who previously received conventional infertility treatments and now they are candidates for egg donation. The patient and the physician who does the intervention can not be blinded but the follow up and data analysis are blinded.At 14 th day of cycle under analgesia PRP is performed by transvaginal ultrasonography and needle of ovarian puncthuer.

Participants/Inclusion and exclusion criteria
Inclusion critria: - 20-45 years old women -At least one previous IVF cycle with three or less ova and one of the followings: An abnormal ovarian reserve test Antral follicular count less than five follicles - Egg donation candidate Exclusion criteria: - Male infertility Ovarian failure due to gonadal dysgenesis or chromosomal abnormalities

Intervention groups
Platelet reach plasma is obtained from patients peripheral blood and injected in the ovaries by transvaginal ultrasonographic guidance under anesthesia.

Main outcome variables
FSH, LH, ESTRADIOL and anti-mullerian hormone (AMH) level, antral follicular count and menstruation pattern before PRP and monthly until three months after that are controlled; then patients undergo IVF and the numbers of oocyte, chemical ,clinical pregnancy outcome are followed.

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20091012002576N19**
Registration date: **2020-08-21, 1399/05/31**
Registration timing: **registered_while_recruiting**

Last update: **2020-08-21, 1399/05/31**
Update count: **0**

Registration date
2020-08-21, 1399/05/31

Registrant information

Name
Fatemeh Davari Tanha

Name of organization / entity
Tehran University of Medical Sciences

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Iran (Islamic Republic of)

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fdavaritanha@sina.tums.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2020-07-22, 1399/05/01

Expected recruitment end date
2021-07-22, 1400/04/31

Actual recruitment start date
empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of intraovarian platelet rich plasma injection on infertile women with poor ovarian response in Yas Hospital and evaluation of ovarian response to next IVF cycle

Public title

The effects of intraovarian platelet rich plasma injection on infertile women with poor ovarian response

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age 25-40 years old Abnormal ovarian reserve test Antral follicle count<5 At least one previous IVF cycle <oocyte was retrieved

Exclusion criteria:

Ovarian insufficiency due to gonadal dysgenesia and abnormality of chromosoms Male infertility

Age

From **20 years** old to **45 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **20**

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

The ethic commitee of Tehran University of Medical sciences

Street address

North Nejatollahi Avenue- Yas Hospital

City

Tehran

Province

Tehran

Postal code

15786

Approval date

2020-07-22, 1399/05/01

Ethics committee reference number

IR.TUMS.MEDICINE.REC.1399.257

Health conditions studied

1

Description of health condition studied

Female infertility due to poor ovarian response, egg donation candidate

ICD-10 code

N97.8

ICD-10 code description

female infertility of other origin

Primary outcomes

1

Description

Clinical pregnancy

Timepoint

After fetal transfer

Method of measurement

Ultrasound

Secondary outcomes

1

Description

Chemical pregnancy

Timepoint

Two weeks after fetal transfer

Method of measurement

Laboratory positive beta HCG test

2

Description

Gestational sac by transvaginal sonography

Timepoint

Three weeks after embryo transfer

Method of measurement

Transvaginal sonography

3

Description

Fetal heart activity by transvaginal sonography

Timepoint

Four weeks after embryo transfer

Method of measurement

Ultrasound

4

Description
FSH,LH,AMH,Esteradiol
Timepoint
Before and 3 months after intervention
Method of measurement
Laboratory tests

Intervention groups

1

Description
Intervention group: platelet reach plasma is prepared from patient's peripheral blood and injected in the ovarian tissue by transvaginal ultrasonographic guidance under anesthesia.
Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Yas Hospital
Full name of responsible person
فاطمه داوری تنها
Street address
Yas Hospital, North Ostad Nejatollahi St., Villa St., Karimkhan bridge
City
Tehran
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1597856511
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fatedavtanha@gmail.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Fatemeh Davari-Tanha
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North Nejatollahi Avenue- Yas Hospital
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15978
Phone
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fatedavtanha@gmail.com
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
معاونت پژوهشی دانشگاه علوم پزشکی تهران
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
Tehran University of Medical Sciences
Full name of responsible person
Fatemeh Davari-Tanha
Position
Professor
Latest degree
Subspecialist
Other areas of specialty/work
Gynecology and Obstetrics
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Person responsible for scientific inquiries

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Person responsible for updating data

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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
Yes - There is a plan to make this available
Title and more details about the data/document
Project report to Deputy of Research of TUMS, every researcher who needs data for research.
When the data will become available and for how long
Two years
To whom data/document is available
Deputy of Research of TUMS,every researcher who needs data for research.
Under which criteria data/document could be used
Final report and published the results,data is delivered to every researcher who needs it for research or systematic review .
From where data/document is obtainable
Miss Moamaei-Deputy of Research of TUMS,fifth floor,Central building of TUMS,Ghods ave., Tel:00982164431
What processes are involved for a request to access data/document
Miss Moamaei-Deputy of Research of TUMS or send the request to fatedavtanha@gmail.com, responsible author, after 7 days I will respond
Comments