

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the effect of PRP on the outcome of IVF cycle in poorly responding patients

Protocol summary

Study aim

Determining the effect of Plasma richplatelet on IVF cycle outcome in poor responder patients

Design

This study is a before-after study that will be conducted in Shahid Beheshti Hospital, Kashan. This study will be conducted on 15 poor responder patients of Poseidon group 3 and 1

Settings and conduct

It includes people who refer to the infertility center of Shahid Beheshti Hospital in Kashan in 2022 and 15 people will be selected based on the entry and exit criteria. Before entering the IVF cycle, patients perform FSH and AMH hormone tests. If a follicle with a size of 12 to 14 micrometers is observed, the patient is prescribed Sterotide. When 2 or more than 2 follicles with a size of 17 or more than 17 mm are seen in the ultrasound, 36 hours after the final stimulation of the follicle, ovarian puncture is performed, and after the puncture, 5.2 cc of PRP is injected into each The ovary is injected.

Participants/Inclusion and exclusion criteria

The criteria for entering the study are age less than 35 years, BMI less than 30 and AMH<1.2 ng/ml AFC<5 or under 35 years and a history of poor response during IVF cycle with AMH>1.2 ng/ml AFC>5 Exclusion conditions are hematological disorders, immunological disorders,

Intervention groups

Fertility in women who belong to Poseidon 1-3 which is measuring ovarian stimulating hormone and anti-Müllerian hormone endometrial thickness, embryo quality oocyte number and oocyte size before and after administration of PRP.

Main outcome variables

Investigating the effect of PRP on the outcome of the IVF cycle on the number of follicles larger than 17 mm on the number of antral follicles and the number of M2 oocytes and the percentage of fertilization and the number of embryos Weber embryo quality Weber endometrial thickness

General information

Reason for update

Acronym

PRP in infertility

IRCT registration information

IRCT registration number: **IRCT20220809055651N1**

Registration date: **2022-10-30, 1401/08/08**

Registration timing: **registered_while_recruiting**

Last update: **2022-10-30, 1401/08/08**

Update count: **0**

Registration date

2022-10-30, 1401/08/08

Registrant information

Name

Zahra Usefi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3650 8827

Email address

usefi-z@kaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-10-23, 1401/08/01

Expected recruitment end date

2023-03-20, 1401/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of PRP on the outcome of IVF cycle in poorly responding patients

Public title

PRP in infertility

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

This study will be conducted on 15 poor responder patients of group 3 and 1 poseidon. Inclusion criteria: age less than 35 years, BMI less than 30 and AMH<1.2 ng/ml AFC<5 (group 3 Poseidon) or women under 35 years and a history of poor response during IVF cycle with AMH >1.2 ng/ml AFC >5 (Group 1 of Poseidon).

Exclusion criteria:

Hematological disorders (leukemia, thrombocytopenia), immunological disorders (antiphospholipid syndrome, thrombophilia), hormonal disorders (diabetes, thyroid, hyperprolactinemia), chromosomal and genetic abnormalities (hereditary or congenital) and kidney failure.

Age

To 35 years old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 15

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Hematological disorders (leukemia, thrombocytopenia), immunological disorders (antiphospholipid syndrome, thrombophilia), hormonal disorders (diabetes, thyroid, hyperprolactinemia), chromosomal and genetic abnormalities (hereditary or congenital) and kidney failure.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of kashan University of Medical

Sciences

Street address

esfahan -kashan -daneshghah olome pezeshki
kashan-saite maskonie daneshghah

City

kashan

Province

Isfahan

Postal code

8715985131

Approval date

2022-07-16, 1401/04/25

Ethics committee reference number

IR.KAUMS.MEDNT.REC.1401.056

Health conditions studied

1

Description of health condition studied

Evaluation of the effect of PRP on the outcome of IVF cycle in poorly responding patients

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Endometrial thickness

Timepoint

Before entering the cycle on the fifth day of the eighth and three months later

Method of measurement

Ultrasound

2

Description

Oocyte count

Timepoint

Before entering the cycle on the fifth day of the eighth and three months later

Method of measurement

Ultrasound (sonography)

Secondary outcomes

1

Description

ANTI MOULLERIAN HORMON

Timepoint

Before entering the cycle on the fifth day of the eighth and three months later

Method of measurement

Measurement by blood test analysis after eight hours of fasting and without intimacy and stress the night before

2

Description

Follicle-stimulating Hormone

Timepoint

Before entering the cycle on the fifth day of the eighth and three months later

Method of measurement

Measurement by blood test analysis after eight hours of fasting and without intimacy and stress the night before

Intervention groups

1

Description

The present study is a before and after clinical trial study that will be conducted in Shahid Beheshti Hospital, Kashan. This study will be conducted on 15 poor responder patients of group 3 and 1 poseidon. The IVF cycle begins with the administration of HMG at a dose of 300 IU/d, and on the fifth day, ultrasound stimulation is performed again. If a follicle with a size of 12 to 14 micrometers is observed, the patient is prescribed Sterotide (MG0.25). When 2 or more than 2 follicles with a size of 17 or more than 17 mm are seen in ultrasound, The final follicle stimulation is done by prescribing HCG 10000 + ptyl 0.2mg Decape for the patient. HMG Vestrotide brand is one of the drugs available in the market and PRP is Avigen brand. 36 hours after the final follicle stimulation, the ovary is punctured and after the puncture at the rate of 2.5 CC PRP is injected into each ovary. 3 months after PRP administration, FSH and AMH levels are measured in the same people, and IVF cycles are performed again with the same method as before, and the number of follicles with a size of 17 micrometers or more, the number of M2 oocytes, the percentage of fertilization, the number of embryos and the quality The embryo and the thickness of the endometrium are examined. Finally, all these criteria that were mentioned are compared with the time before PRP administration.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

KASHAN SHAHID BEHESHTI HOSPITAL

Full name of responsible person

ZAHRA USEFI

Street address

ESFAHAN-kashan -bolvar ghotbe ravandi-bimarestan
shahid beheshti kashan

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Email

usefi-z@kaums.ac.ir

Web page address

http://beheshti.kaums.ac.ir/

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kashan University of Medical Sciences

Full name of responsible person

dr tayebe hashemi

Street address

Kashan Qutub Rawandi Blvd. Kashan University of
Medical Sciences residential site of the university

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Email

usefi-a@kaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kashan 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

Kashan University of Medical Sciences

Full name of responsible person

zahra usefi

Position

Obstetrics and Gynecology Surgery Resident

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

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Email

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

Kashan University of Medical Sciences

Full name of responsible person

dr tayebe hashemi

Position

Assistant 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**

Kashan University of Medical Sciences

Full name of responsible person

zahra usefi

Position

resident of obstruction and gynecology

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to
make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to
make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to
make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to
make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to
make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to
make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to
make this available