

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Study the effect of Platelet-Rich Plasma (PRP) in treatment of depletion of ovarian reserve in women

Protocol summary

Study aim

Study the therapeutic effect of Platelet-Rich Plasma (PRP) in treatment of depletion of ovarian reserve in women

Design

Clinical trial without control group, community based, with one group, not blinded, Non-randomised controlled study.

Settings and conduct

This study will be done in Afzalipour hospital infertility center and kerman medical university. After selection of patients by clinician, their blood will be taken and PRP provided. Then PRP will be injected 1 time by clinician and the patients will be followed up for 1 and 6 months after injection

Participants/Inclusion and exclusion criteria

inclusion criteria: Patients aged between 20-45 years; Presence of at least one ovary; Presence of poor ovarian responders criteria including one of the following: Anti Mullerian Hormone <1.1 ng/mL; Antral follicle Count <7 follicles; History of Cancellation of the IVF Cycle due to the lack of follicle growth; IVF history with oocyte count less than 3. exclusion criteria: IgA deficiency; Adhesion or severe damage to the pelvis or ovaries; Pregnancy; Anticoagulation therapy; Opium addiction; Gynecologic or non gynecologic malignancies; Individuals with chronic pelvic pain

Intervention groups

30 infertile women aged 20 to 45 who have received a drug for In vitro Fertilization and have inclusion criteria and have not exclusion criteria. At the time of oocyte retrieval platelet-rich plasma injected into the ovaries by a pick up needle.

Main outcome variables

Anti mullerian hormone; antral follicle count

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151004024335N4**

Registration date: **2019-05-20, 1398/02/30**

Registration timing: **prospective**

Last update: **2019-05-20, 1398/02/30**

Update count: **0**

Registration date

2019-05-20, 1398/02/30

Registrant information

Name

robabe hoseinisadat

Name of organization / entity

infertility institute center of shahid sadughi

Country

Iran (Islamic Republic of)

Phone

+98 35 3824 7085

Email address

robabehoseini@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-22, 1398/04/01

Expected recruitment end date

2020-06-21, 1399/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study the effect of Platelet-Rich Plasma (PRP) in treatment of depletion of ovarian reserve in women

Public title

Study the effect of intra ovarian Platelet-Rich Plasma (PRP) in treatment of depletion of ovarian reserve in women

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients aged between 20-45 at least one ovary poor ovarian responders criteria including one of the following: Anti Mullerian Hormone <1.1 ng/mL; Antral follicle Count <7 follicles; History of Cancellation of the IVF Cycle due to the lack of follicle growth; IVF history with oocyte count less than 3.

Exclusion criteria:

IgA deficiency adhesion or severe damage to the pelvis or ovaries pregnancy anticoagulation therapy opium addiction gynecologic or non gynecologic malignancies chronic pelvic pain

Age

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

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

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 Kerman University of Medical Sciences

Street address

Ibn Sina Street, Jihad Boulevard, Somayeh Road (Tahmasebabad)

City

kerman

Province

Kerman

Postal code

7619813159

Approval date

2019-04-08, 1398/01/19

Ethics committee reference number

IR.KMU.REC.1397.522

Health conditions studied**1****Description of health condition studied**

infertility

ICD-10 code

N98.9

ICD-10 code description

Complication associated with artificial fertilization, unspecified

Primary outcomes**1****Description**

Anti Mullerian Hormone

Timepoint

Before intervention and 1 and 6 months after intervention

Method of measurement

blood sample

Secondary outcomes**1****Description**

Antral follicle count

Timepoint

Before intervention and 1and 6 months after the intervention

Method of measurement

with trans vaginal ultrasonography

Intervention groups**1****Description**

Intervention group: 30 infertile women with poor responder ovary criteria. After getting informed consent, own of patient's blood derivatives (Platelet Rich Plasma; PRP) will be used. This product will be injected 1 time to patients.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Afzalipour Infertility Center

Full name of responsible person
Dr Robabe Hosseinisadat
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Imam Khomeini Highway, Afzalipour Hospital
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
Research Assistant, Kerman University of Medical Sciences
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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kerman 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
Kerman University of Medical Sciences

Full name of responsible person
Robabe Hosseinisadat
Position
Assistant Professor
Latest degree
Subspecialist
Other areas of specialty/work
Gynecology and Obstetrics
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

The final result of the study will be published and there is

no need to share individual participants' data

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

No - There is not a plan to make this available