

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Effect of autologous platelet-rich plasma on ovarian frejuvenalization

Protocol summary

Study aim

Determination of the effect of platelet-rich plasma injection on ovarian rejuvenation in women with early ovarian failure

Design

In this randomized controlled clinical trial, 60 women between 18 and 40 with early ovarian failure will be randomly assigned to intervention and control groups if they meet the inclusion criteria. In the intervention group PRP is used in addition to standard treatment. The ultrasound-guided injection of a 5-cc puncture needle is injected from the solution under the capsule of each ovary. The control group received only standard treatment. In both groups, clinical and chemical pregnancy, mean serum FSH levels, mean diameter, follicle count and ovarian volume will be measured and compared at 0, 2, 6 and 12 months post-intervention.

Settings and conduct

Women with premature ovarian failure referred to Fatemeh Hospital in Hamadan will receive PRP injection in addition to standard treatment and the outcome of the intervention will be compared to the control group within one year.

Participants/Inclusion and exclusion criteria

women with early ovarian failure Inclusion criteria: Amenorrhea diagnosis, age 18 to 40 years, POF diagnosis in the last three years Exclusion criteria: Systemic disease, treated with anticancer drugs, use of contraceptives

Intervention groups

In sterile conditions prepared PRP will inject into the ovary by a gynecologist under ultrasound guide.

Main outcome variables

Return of pregnancy within one year

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151123025202N2**

Registration date: **2019-11-10, 1398/08/19**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-10, 1398/08/19**

Update count: **0**

Registration date

2019-11-10, 1398/08/19

Registrant information

Name

Abbas Moradi

Name of organization / entity

Hamedan University of Medical Of Science

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 0097

Email address

a.moradi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-03-21, 1398/01/01

Expected recruitment end date

2020-09-22, 1399/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of autologous platelet-rich plasma on ovarian frejuvenalization

Public title

Assmenat addition of autologous platelet-rich plasma in premature ovarian failur effect rejuvenalization

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Women with amenorrhea before the age of 40

Exclusion criteria:

Amenorrhea due to a specific illness

Age

From **18 years** old to **40 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

For this purpose, we will use four random blocks. So we use 4 sheets of paper on 2 sheets of letter 1 meaning intervention and on 2 sheets of letter 2 means comparison. We mix the sheets together and place them in the drawer of the table each time the patient is randomly drawn out of one of the sheets and has one or two letters written on the sheet, respectively, one by one. Two groups of intervention or comparison will be assigned. It should be noted that the drawn tabs will not be returned to the drawer until all 4 tabs have been selected. Therefore, once the last tab has been pulled out, all the tabs will be returned to the drawer again. The procedure will continue for the next 4 patients until the desired sample size is reached

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Hamedan University of medical science

Street address

Shahid Fahmide Ave

City

Hamedan

Province

Hamadan

Postal code

6517838677

Approval date

2019-03-09, 1397/12/18

Ethics committee reference number

IR.UMSHA.REC.1397.963

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

premature ovarian failur

ICD-10 code

E28.3

ICD-10 code description

Primary ovarian failure

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

Treatment of infertility

Timepoint

At intervention time(Base), 2, 6 and 12 months after intervention

Method of measurement

Hormonal testing and ultrasound

Secondary outcomes

empty

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

Intervention group: In addition to receiving routine medication 5 ml of PRP after adding calcium as an activator is injected into the ovary with sterile conditions.

Category

Treatment - Drugs

2**Description**

Control group: Only receive routine treatment

Category

Treatment - Drugs

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

Fatemieh Hospital

Full name of responsible person

Dr Mahnaz Yavangi

Street address

Pasdaran

City
Hamedan
Province
Hamadan
Postal code
6517789971
Phone
+98 81 1827 7459
Fax
+98 81 1828 3939
Email
fatemieh@umsha.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Dr Saeid Bashirian
Street address
Shahid Fahmideh Ave
City
Hamedan
Province
Hamadan
Postal code
6517838677
Phone
+98 81 3838 0717
Fax
Email
vc_research@umsha.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Hamedan 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
Hamedan University of Medical Sciences
Full name of responsible person
Abbas Moradi
Position

Nonacademic staff of Social Medicine

Latest degree

Master

Other areas of specialty/work

Epidemiology

Street address

No 5, Dena Unit, Fatah Alley, Victory Alley, Ammar Ave

City

Hamedan

Province

Hamadan

Postal code

6515974544

Phone

+98 81 3823 5480

Email

a.moradi@umsha.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Dr Mahnaz Yavangi

Position

Associate Professor of Obstetrics and Gynecology

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

Fatemieh Hospital. Pasdaran Ave

City

Hamedan

Province

Hamadan

Postal code

6517789971

Phone

+98 81 1827 7459

Email

yavangi@umsha.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Abbas Moradi

Position

Nonacademic staff of community medicine

Latest degree

Master

Other areas of specialty/work

Epidemiology

Street address

No 5, Dena Unit, Fatah Alley, Victory Alley, Ammar Ave

City

Hamedan

Province

Hamadan

Postal code

6517838677

Phone

+98 81 3838 0097

Fax

+98 81 3838 0208

Email

a.moradi@umsha.ac.ir

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

I am waiting for the results of the study

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not 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

No - There is not 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