Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Effects of platelet-rich plasma versus Hams F10 on the ovarian stimulation outcome in infertile women with poor ovarian response: a single blind randomized clinical trial

Protocol summary

Summary

Objectives: To assess the effect of platelet-rich plasma versus Hams F10 on the ovarian stimulation outcome in infertile women with poor ovarian response Design: a single blind randomized clinical trial. Setting and conduct: The eligible infertile women with poor ovarian response who will refer to Fatemieh Hospital during the study period will be enrolled into the trial. Inclusion criteria: age of 20 to 42 years; poor ovarian response (less than 3 ovule in each cycle). Exclusion criteria: pregnancy contraindication; family history of ovarian cancer; presence of any type of chronic disease such as anemia or endocrine disorders or renal failure. Intervention group: Intra-ovarian injection of 2 to 3 ml platelet-rich plasma once. Control group: Intra-ovarian injection of 2 to 3 ml Hams once. Primary outcome: (a) counting ovule one and eight weeks after intervention using microscope; (b) measuring FSH and LH before intervention and 4 weeks after intervention through laboratory evaluation. Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Patients will be unaware of the type of intervention. Therefore, the trial will be run as single blind.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201703079014N150**
Registration date: **2017-03-08, 1395/12/18**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-03-08, 1395/12/18

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 1838 0090

Email address

poorolajal@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research the Technology, Hamadan University of Medical Sciences

Expected recruitment start date

2017-01-04, 1395/10/15

Expected recruitment end date

2018-01-05, 1396/10/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of platelet-rich plasma versus Hams F10 on the ovarian stimulation outcome in infertile women with poor ovarian response: a single blind randomized clinical trial

Public title

Effects of platelet-rich plasma versus Hams F10 on the ovarian stimulation outcome in infertile women with poor ovarian response

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age of 20 to 42 years; poor ovarian response (less than 3 ovule in each cycle). Exclusion criteria: pregnancy contraindication; family history of ovarian cancer; presence of any type of chronic disease such as anemia or endocrine disorders or renal failure.

Age

From **20 years** old to **42 years** old

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **46**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Patients will be unaware of the type of intervention. Therefore, the trial will be run as single blind.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research the Technology, Hamadan University of Medical Sciences, Shahid Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2017-03-04, 1395/12/14

Ethics committee reference number

IR.UMSHA.REC.1395.593

Health conditions studied

1

Description of health condition studied

infertile women

ICD-10 code

N97.9

ICD-10 code description

Female infertility, unspecified

Primary outcomes

1

Description

counting ovule

Timepoint

one and eight weeks after intervention

Method of measurement

using microscope

2

Description

measuring FSH and LH

Timepoint

before intervention and 4 weeks after intervention

Method of measurement

through laboratory evaluation

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Intra-ovarian injection of 2 to 3 ml platelet-rich plasma once.

Category

Treatment - Drugs

2

Description

Control group: Intra-ovarian injection of 2 to 3 ml Hams once.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Fatemieh Hospital

Full name of responsible person

Dr Safoura Heshmati

Street address

Fatemieh Hospital, Pasdaran Ave.

City
Hamadan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice-chancellor for Research the Technology, Hamadan University of Medical Sciences
Full name of responsible person
Dr Saeid Bashirian
Street address
Hamadan University of Medical Sciences, Shahid Fahmideh Ave
City
Hamadan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice-chancellor for Research the Technology, Hamadan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
Fatemieh Hospital
Full name of responsible person
Dr Safoura Heshmati
Position
Resident of Gynecology
Other areas of specialty/work
Street address
Fatemieh Hospital, Pasdaran Ave.
City
Hamadan
Postal code
Phone
+98 81 3828 3939
Fax
Email
safouraheshmati@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Fatemieh Hospital
Full name of responsible person
Dr Marzieh Farimani
Position
Gynecologist
Other areas of specialty/work
Street address
Fatemieh Hospital, Pasdaran Ave.
City
Hamadan
Postal code
Phone
+98 81 3828 3939
Fax
Email
dr_farimani@.yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Department of Epidemiology
Full name of responsible person
Dr Jalal Poorolajal
Position
Associate Professor
Other areas of specialty/work
Street address
School of Public Health, Hamadan University of Medical Sciences, Shahid Fahmideh Ave
City
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0090
Fax
Email
poorolajal@umsha.ac.ir
Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary

empty