Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Efficacy of Granulocyte Colony Stimulating Factor(G-CF) on treatment of unexplained recurrent miscarriage in Avicena center

Protocol summary

Summary

We are going to study on efficacy of intrauterine G_CSF in implantation in patients with recurrent pregnancy loss. In this prospective randomized trial we are going to investigate efficacy of intrauterine G-CSF(300 micrograms or 1ml) in Avicenna research center patients' with recurrent pregnancy loss. Patients will be divided to two groups; A: patients will be administrated intrauterine G-CSF twice(first when intra vaginal ultrasound revealed adequate follicle and then 1 week after HCG administration).These two groups will be compared about pregnancy outcomes. All groups will be administrated Heparin and Aspirin experimentally.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013012211430N3**
Registration date: **2013-04-17, 1392/01/28**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2013-04-17, 1392/01/28

Registrant information

Name

Simin Zafardoust

Name of organization / entity

Jahad University

Country

Iran (Islamic Republic of)

Phone

+98 21 2264 4701

Email address

s.zafardoost@avicenna.ac.ir

Recruitment status

Recruitment complete

Funding source

Jahad of University

Expected recruitment start date

2013-04-21, 1392/02/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of Granulocyte Colony Stimulating Factor(G-CF) on treatment of unexplained recurrent miscarriage in Avicena center

Public title

Treatment of patients with recurrent pregnancy loss

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients with 3 or more abortion or 2 consecutive abortion; under 40 years old; normal karyotype; normal uterus; without infectious or immunologic or endocrine or thrombotic disorders; normal thyroid function,TPO<=500; FSH<=10; LH=normal and FBS=normal. Exclusion criteria: cancer and no acceptance to participate in the study.

Age

To **40 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size
Target sample size: **68**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Jahad center of university
Street address
Shahid Beheshty university
City
Tehran
Postal code
19419113194
Approval date
2010-09-23, 1389/07/01
Ethics committee reference number
91/15/2824/س

Health conditions studied

1

Description of health condition studied
Recurrent pregnancy loss
ICD-10 code
N96
ICD-10 code description
Habitual aborter

Primary outcomes

1

Description
Abortion rate
Timepoint
14 days after intervention- 3 months after intervention and 9 months after intervention
Method of measurement
Laboratory-ultrasonography

Secondary outcomes

1

Description
Natural Killer cells
Timepoint
14 days after HCG
Method of measurement
Measurment of CD16-CD56

Intervention groups

1

Description
Intra uterin infusion of G-CSF when follicle size is appropriate and 1 week after HCG
Category
Treatment - Drugs

2

Description
Routin care; we have no intervention in control group.
Category
N/A

Recruitment centers

1

Recruitment center
Name of recruitment center
Infertility and recurrent pregnancy loss center of Avecinna
Full name of responsible person
Dr Ansaripoor Soheila- Dr Zafardoost Simin
Street address
Shriati-Yakhchal
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Reaserch center of Avicenna
Full name of responsible person
Dr Akhoondi Mohammad Mehdi
Street address
Yakhchal, Shariati
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Reaserch center of Avicenna
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

Infertility and recurrent pregnancy loss center of Avicenna

Full name of responsible person

Dr Zafardoost Simin

Position

Obstetrics and Gynecologist-fellowship in infertility

Other areas of specialty/work

Street address

Shariati-Yakhchal

City

Tehran

Postal code

19419113194

Phone

+98 21 2264 4701

Fax

+98 21 2264 4754

Email

siminzafardoost@yahoo.com; S.Zafardoost@avicenna.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Research Center of Jahad

Full name of responsible person

Zafardoost Simin M.D

Position

Obstetrics and Gynecologist-Fellowship in infertility

Other areas of specialty/work

Street address

Shariati-Yakhchal

City

Tehran

Postal code

19419113194

Phone

+98 21 2264 4701

Fax

+98 21 2264 4754

Email

siminzafardoost@yahoo.com; S.Zafardoost@avicenna.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Infertility and recurrent pregnancy loss center of Avicenna

Full name of responsible person

Dr Zafardoost Simin

Position

Obstetrics and Gynecologist

Other areas of specialty/work

Street address

Shariati-Yakhchal

City

Tehran

Postal code

19419113194

Phone

+98 21 2264 4701

Fax

+98 21 2264 4754

Email

siminzafardoost@yahoo.com; S.Zafardoost@avicenna.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