

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Efficacy of Granulocyte Colony Stimulating Factor(G-CF) on treatment of unexplained recurrent miscarriage in Avicenna 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 Avicenna 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 \leq 500; FSH \leq 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

Measurement 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 Avicenna

Full name of responsible person

Dr Ansari-poor Soheila- Dr Zafardoost Simin

Street address

Shriati-Yakhchal

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research 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

Research 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 Jihad

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