

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

G-CSF and Assisted Reproductive Techniques outcomes in repeated implantation failures

Protocol summary

Summary

The aim of this study is evaluation of the effect of Granulocyte-colony stimulating factor(G-CSF) in Assisted Reproductive Techniques outcomes in repeated implantation failures .Therefore from patients referred to Avicenna Infertility Treatment Center from 21/07/2013 until 22/10/2013 with more than 3 unexplained Assisted Reproductive Techniques failures in ages between 20 and 38 years and based on other Inclusion and Exclusion criteria totally 100 patients in Intervention group(50) and in Control group(50) will be evaluated randomly and double blind. We use GnRH agonist(long protocol) For ovulation induction in all patients ;in Intervention group 1cc(300)microgram G-CSF and in Control group 1cc normal saline will be injected in to uterine cavity through vagina on day ovarian puncture(for oocytes collection), and Assisted Reproductive Techniques outcomes will be evaluated in two groups for pregnancy rates.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013063011653N2**

Registration date: **2013-07-16, 1392/04/25**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2013-07-16, 1392/04/25

Registrant information

Name

Sara Mokhtar

Name of organization / entity

Avicenna Infertility Treatment Center

Country

Iran (Islamic Republic of)

Phone

+98 21 23519

Email address

s.mokhtar@avicenna.ac.ir

Recruitment status

Recruitment complete

Funding source

Avicenna Infertility Treatment Center

Expected recruitment start date

2013-07-21, 1392/04/30

Expected recruitment end date

2013-10-22, 1392/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

G-CSF and Assisted Reproductive Techniques outcomes in repeated implantation failures

Public title

G-CSF and Assisted Reproductive Techniques outcomes in repeated implantation failures

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: ART failure>3; Age:20-38; Normal karyotype and uterus anatomy; Do not have infection,endocrine and immune and coagulation disorders ,thrombophilia; Normal TSH,LH,FBS; FSH<10 TPO<500; Negative lupus anti coagulant; Negative Toxoplasma,CMV,Rhubella; Normal Factor 5leiden,factor2 prothrombin,protein C, Pr S Exclusion criteria:Azoospermia with negative testis biopsy; Egg donation; Suffering from cancer

Age

From **20 years** old to **38 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Avicenna Infertility Treatment Center

Street address

Avicenna Infertility Treatment Center, No 97,
Yakhchal-Shariati junction, Shariati st, Tehran, Iran

City

Tehran

Postal code

Approval date

2012-11-05, 1391/08/15

Ethics committee reference number

2823/15/91/ص

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

Z31.2

ICD-10 code description

In vitro fertilization

Primary outcomes

1

Description

Clinical pregnancy

Timepoint

After intervention

Method of measurement

Gestational Sac in sonography

Secondary outcomes

1

Description

Chemical pregnancy

Timepoint

After intervention

Method of measurement

HCG

Intervention groups

1

Description

In Intervention group 1cc(300)microgram Granulocyte-colony stimulating factor will be injected in to uterine cavity through vagina.

Category

Treatment - Drugs

2

Description

In Control group 1cc normal saline will be injected in to uterine cavity through vagina.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Avicenna Infertility Treatment Center

Full name of responsible person

Dr Sara Mokhtar

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Avicenna Infertility Treatment Center

Full name of responsible person

Dr Akhondi

Street address

Avicenna Infertility Treatment Center, No97,
Yakhchal-Shariati junction, Shariati st, Tehran, Iran

City

Tehran

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Avicenna Infertility Treatment Center
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
 Avicenna Infertility treatment center
Full name of responsible person
 Dr Sara Mokhtar
Position
 Obstetrician &Gynecologist
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Person responsible for updating data

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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