

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Assessment of Tacrolimus Efficacy in Patients with Recurrent Pregnancy Loss.

Protocol summary

Study aim

Assessment of Tacrolimus Efficacy in Patients with Recurrent Pregnancy Loss.

Design

After obtaining informed consent, patients will be enrolled in the study based on the inclusion and exclusion criteria. 100 patients, from the day of a positive pregnancy test, oral tacrolimus at a dose of 0.5 mg twice daily (bd) will be prescribed and continued until the 10th week of pregnancy. Patients will be followed up until at least the 37th week of gestation and delivery.

Settings and conduct

The clinic of Dr. Soheila Arefi and the Avicenna Infertility Center in Tehran, Iran.

Participants/Inclusion and exclusion criteria

Inclusion criteria : 1: Women aged between 20 and 39 years . 2: Patients who presented for treatment of recurrent miscarriage (three or more miscarriages before 12 weeks of gestation, with documented fetal heart rate [FHR]) . 3: Patients with unexplained infertility despite evaluation, including assessment of ovulatory function, tubal patency, uterine anatomical abnormalities, cervical factors, and sperm quality and quantity . 4: Patients who are able to continue regular follow-up visits during the study period . Exclusion criteria : 1: Patients using immunosuppressive medications for infertility treatment, such as azathioprine, mizoribine, mycophenolate mofetil . 2: Chronic endometritis diagnosed by endometrial biopsy. 3: Uterine anomalies, uterine fibroids, endometrial polyps, or intrauterine adhesions . 4: Active infections including HIV, hepatitis B, hepatitis C, or other active viral diseases .

Intervention groups

Patients with Recurrent Pregnancy Loss

Main outcome variables

Outcome Assessment: To confirm or rule out pregnancy, serum β -hCG levels will be measured. If serum β -hCG is positive, patients will be followed up until the 37th week of gestation and the end of pregnancy to assess for live

birth.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20250527065938N1**

Registration date: **2025-06-20, 1404/03/30**

Registration timing: **registered_while_recruiting**

Last update: **2025-06-20, 1404/03/30**

Update count: **0**

Registration date

2025-06-20, 1404/03/30

Registrant information

Name

Somayyeh Shaikh alian zafarghandi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 912 612 0791

Email address

mahyar.fasihi80@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2025-06-06, 1404/03/16

Expected recruitment end date

2026-06-06, 1405/03/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of Tacrolimus Efficacy in Patients with Recurrent Pregnancy Loss.

Public title

Assessment of Tacrolimus Efficacy in Patients with Recurrent Pregnancy Loss.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Women aged between 20 and 39 years. Patients who presented for treatment of recurrent miscarriage (three or more miscarriages before 12 weeks of gestation, with documented fetal heart rate [FHR]). Patients with unexplained infertility despite evaluation, including assessment of ovulatory function, tubal patency, uterine anatomical abnormalities, cervical factors, and sperm quality and quantity. Patients who are able to continue regular follow-up visits during the study period.

Exclusion criteria:

Patients using immunosuppressive medications for infertility treatment, such as azathioprine, mizoribine, mycophenolate mofetil, cyclophosphamide, sirolimus, everolimus, cyclosporine, basiliximab, etanercept, golimumab, cantuzumab, tocilizumab, conatumumab, corticosteroids, or intravenous immunoglobulin (IVIG). Chronic endometritis diagnosed by endometrial biopsy. Uterine anomalies, uterine fibroids, endometrial polyps, or intrauterine adhesions. Active infections including HIV, hepatitis B, hepatitis C, or other active viral diseases.

Age

From **20 years** old to **39 years** old

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

N/A

Randomization description

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

Avicenna Research Institute, Iranian Academic Center for Education, Culture and Research (ACECR)

Street address

Shahid Beheshti University, Rashideddin Fazlollah Street, Yemen Street, Chamran Expressway (North to South), Tehran, Iran.

City

Tehran

Province

Tehran

Postal code

1936773493

Approval date

2025-05-25, 1404/03/04

Ethics committee reference number

IR.ACECR.AVICENNA.REC.1404.003

Health conditions studied

1

Description of health condition studied

Recurrent Pregnancy Loss .

ICD-10 code

Tacrolimus

ICD-10 code description

Tacrolimus Efficacy in Patients with Recurrent Pregnancy Loss .

Primary outcomes

1

Description

Live Births .

Timepoint

Evaluation of the Effect of Tacrolimus on Recurrent Pregnancy Loss Based on the Number of Live Births 18 month evaluation.

Method of measurement

Evaluation of the Effect of Tacrolimus on Recurrent Pregnancy Loss Based on the Number of Live Births.

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group .Tacrolimus prescription

Category

Treatment - Drugs

2

Description

Control group: Follow pregnant women without take Tacrolimus.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Dr. Soheila Arefi's Clinic

Full name of responsible person

Dr. Soheila Arefi

Street address

No. 28, Kohestan Street, Ketab Square, Saadat Abad, Tehran, Iran.

City

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Province

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Postal code

1669743789

Phone

+98 912 612 0791

Email

mahyarfasihi@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

No. 971941913114, Yakhchal Street, Dr. Shariati Street, Tehran, Iran.

Full name of responsible person

Avicenna Infertility and Recurrent Abortion Specialty Center, Tehran, Iran.

Street address

No. 97 Postal Code: 1941913114, Avicenna Infertility Center, Dr. Shariati Street, Yakhchal Street, Tehran, Iran.

City

Tehran

Province

Tehran

Postal code

1941913114

Phone

+98 21 23519

Email

info@avicennaclinic.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

No. 971941913114, Yakhchal Street, Dr. Shariati Street, Tehran, Iran.

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

Avicenna Infertility Center Dr. Shariati Street, Yakhchal Street, Tehran, Iran.

Full name of responsible person

Somayyeh Shaikhalian Zafarghandi

Position

Infertility fellowship student

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

No. 6, Unit 10, 4th Floor, Eftekhariyan Street, Azizi Alley, Pasdaran, Heravi Square, Mobarak Abad 3-way, Tehran, Iran.

City

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Avicenna Infertility Research Center

Full name of responsible person

Somayyeh Shaikhalian Zafarghandi

Position

Infertility fellow student

Latest degree

Specialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity
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Full name of responsible person
Somayyeh Shaikhalian Zafarghandi
Position
Infertility fellow Student
Latest degree
Specialist
Other areas of specialty/work
Gynecology and Obstetrics
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be 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