

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jul 2026

### Evaluation of the effect of intrauterine injection of ciprofloxacin on chronic endometritis in patients recurrent implantation failure

#### Protocol summary

##### Study aim

Determining the effect of intrauterine injection ciprofloxacin on chronic endometritis in patients with repeated implantation failure.

##### Design

This one-sided blind clinical trial study will be conducted in the form of a before and after comparison (without a control group) on 30 infertile women with an unknown cause of endometritis referring to Hajar Shahrekord Hospital. The antibiotic regimen of doxycycline every 12 hours for 21 days and metronidazole 500 mg every 12 hours for 14 days will continue. In the next menstrual period, sampling will be done, in case of chronic endometritis, ciprofloxacin infusion solution with a concentration of 200 mg/100 ml in the form of 3 ml intrauterine infusion every 3 days using a 23 cm fetal replacement catheter. meter will be done. Therefore, the treatment cycle will be set for a period of one month including 10 infusions

##### Settings and conduct

This study infertile women suffering from endometritis with an unknown cause referred to Hajar Shahrekord Hospital in 1402-1401, in order to evaluate the effect of intrauterine injection ciprofloxacin on Chronic endometritis are studied.

##### Participants/Inclusion and exclusion criteria

Women with chronic endometritis At least 3 failed embryo transfers Having informed consent

##### Intervention groups

Ciprofloxacin infusion solution of 200 mg/100 ml every 3 days via a 23 cm fetal replacement catheter in the form of a 3 ml intrauterine infusion

##### Main outcome variables

Reducing endometritis, Increasing the chance of fertility

#### General information

##### Reason for update

##### Acronym

#### IRCT registration information

IRCT registration number: **IRCT20230111057108N1**

Registration date: **2023-02-12, 1401/11/23**

Registration timing: **prospective**

Last update: **2023-02-12, 1401/11/23**

Update count: **0**

#### Registration date

2023-02-12, 1401/11/23

#### Registrant information

##### Name

Farzaneh Ahmadi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 8670 5503

##### Email address

nemati.m@skums.ac.ir

#### Recruitment status

**Recruitment complete**

#### Funding source

#### Expected recruitment start date

2023-02-20, 1401/12/01

#### Expected recruitment end date

2023-06-21, 1402/03/31

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Evaluation of the effect of intrauterine injection of ciprofloxacin on chronic endometritis in patients recurrent implantation failure

## Public title

Evaluation of the effect of intrauterine injection of ciprofloxacin on chronic endometritis

## Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

Informed consent to participate in the study  
Women with chronic endometritis with embryo transfer failure  
Confirmation of infection using histology and hysteroscopy  
At least 3 with unsuccessful embryo transfer without genetic, metabolic or endocrine causes

### Exclusion criteria:

Hypersensitivity to doxycycline and ciprofloxacin  
Unwillingness to continue participating in the study

## Age

No age limit

## Gender

Female

## Phase

3

## Groups that have been masked

- Data analyser

## Sample size

Target sample size: 30

## Randomization (investigator's opinion)

N/A

## Randomization description

## Blinding (investigator's opinion)

Single blinded

## Blinding description

The data before and after the intervention are unknown to the analyzer.

## Placebo

Not used

## Assignment

Single

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Shahrekord University of Medical Sciences

##### Street address

Kashani street

##### City

Shahre kord

##### Province

Chahar-Mahal-va-Bakhtiari

##### Postal code

۸۸۱۳۸۳۳۴۳۵

## Approval date

2022-04-13, 1401/01/24

## Ethics committee reference number

IR.SKUMS.MED.REC.1401.012

## Health conditions studied

### 1

#### Description of health condition studied

Endometritis - Recurrent implantation failure

#### ICD-10 code

N80.0

#### ICD-10 code description

Endometriosis of uterus

## Primary outcomes

### 1

#### Description

Reduction of histological symptoms related to endometritis

#### Timepoint

Before and one month after receiving the medicine

#### Method of measurement

Laboratory (mild-moderate-severe)

## Secondary outcomes

### 1

#### Description

Increase the chance of fertility

#### Timepoint

After receiving the medicine

#### Method of measurement

Fertility percentage

## Intervention groups

### 1

#### Description

Intervention group: The antibiotic regimen of drsoxycycline every 12 hours for 21 days and metronidazole 500 mg every 12 hours for 14 days will continue. In the next menstrual period, sampling will be done, in case of chronic endometritis, ciprofloxacin infusion solution with a concentration of 200 mg/100 ml in the form of 3 ml intrauterine infusion every 3 days using a 23 cm fetal replacement catheter. meter will be done. Therefore, the treatment cycle will be set for a period of one month including 10 infusions

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

**Name of recruitment center**  
Hajar Shahrekord Hospital  
**Full name of responsible person**  
Farzaneh Ahmadi  
**Street address**  
Nurse St., Hajar Hospital  
**City**  
Shahre kord  
**Province**  
Chahar-Mahal-va-Bakhtiari  
**Postal code**  
۸۸۱۵۷۱۳۴۷۱  
**Phone**  
+98 21 8670 5503  
**Email**  
nemati.m@skums.ac.ir

**Full name of responsible person**  
Farzaneh Ahmadi  
**Position**  
Resident  
**Latest degree**  
Medical doctor  
**Other areas of specialty/work**  
Gynecology and Obstetrics  
**Street address**  
Nurse St. - Hajar Hospital  
**City**  
Shahr e Kord  
**Province**  
Chahar-Mahal-va-Bakhtiari  
**Postal code**  
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**Phone**  
+98 38 3222 0016  
**Email**  
nemati.m@skums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**  
Shahre-kord University of Medical Sciences  
**Full name of responsible person**  
Elham Raeisi  
**Street address**  
Kashani street  
**City**  
Shahre kord  
**Province**  
Chahar-Mahal-va-Bakhtiari  
**Postal code**  
8813833435  
**Phone**  
+98 38 3222 0016  
**Email**  
nemati.m@skums.ac.ir

#### Grant name

**Grant code / Reference number**

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

Yes

#### Title of funding source

Shahre-kord University of Medical Sciences

#### 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**  
Shahre-kord University of Medical Sciences

## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**  
Shahre-kord University of Medical Sciences  
**Full name of responsible person**  
Farzaneh Ahmadi  
**Position**  
Resident  
**Latest degree**  
Medical doctor  
**Other areas of specialty/work**  
Gynecology and Obstetrics  
**Street address**  
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## Person responsible for updating data

#### Contact

**Name of organization / entity**  
Shahre-kord University of Medical Sciences  
**Full name of responsible person**  
Farzaneh Ahmadi  
**Position**  
Resident  
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**Email**

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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