

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jul 2026

The effect of endometrial local injury and GnRH agonist on pregnancy rate in patients with recurrent implantation failure

Protocol summary

Summary

The aim of this study is to evaluate the effect of endometrial local injury and GnRH agonist on pregnancy rate in patients with recurrent implantation failure. In a randomized uni-central clinical trial, 67 patients with recurrent implantation failure referring to infertility clinic of Alzahra Hospital, Tabriz, Iran, will be randomly assigned to receive GnRH protocol or GnRH protocol together with endometrial trauma in control or trauma group, respectively. The main inclusion criterion is to have a history of two or more implantation failure in in-vitro fertilization and the main exclusion criterion is occurrence of intolerable adverse effects. Patients in trauma group will receive endometrial trauma using pipelle biopsy in day 19th of the menstrual period and 500µg of superfact subcutaneously in day 21st of the menstrual period for both groups in order to stimulate the ovulation. Routine in vitro fertilization then will be performed for both groups and after embryo transfer pregnancy rate will be compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013072412146N2**

Registration date: **2013-08-03, 1392/05/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-08-03, 1392/05/12

Registrant information

Name

Laaya Farzadi

Name of organization / entity

Woman's Reproductive Health Research Center of Tabriz

Country

Iran (Islamic Republic of)

Phone

+98 41 1553 9161

Email address

farzadl@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2013-01-10, 1391/10/21

Expected recruitment end date

2013-07-12, 1392/04/21

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of endometrial local injury and GnRH agonist on pregnancy rate in patients with recurrent implantation failure

Public title

Combination of trauma and drug as a treatment for implantation failure

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients with two or more implantation failure in IVF; to be 18 to 40 years old; not to suffer from any systemic disease such as diabetes, hypertension, etc.) Exclusion criterion: occurrence of intolerable adverse effects.

Age

From **18 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **76**

Randomization (investigator's opinion)

Randomized

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**

Ethics Committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Daneshgah Sq.

City

Tabriz

Postal code**Approval date**

2013-01-08, 1391/10/19

Ethics committee reference number

91217

Health conditions studied**1****Description of health condition studied**

Female infertility

ICD-10 code

N97

ICD-10 code description

Female infertility

Primary outcomes**1****Description**

Pregnancy

Timepoint

10 days after in vitro fertilization

Method of measurement

Sending blood sample to laboratory to measure Beta HCG level

Secondary outcomes

empty

Intervention groups**1****Description**

For intervention group: A pipelle biopsy to cause endometrial trauma in the day 19th will be performed and superfact 500µg subcutaneously in the day 21st of the menstrual period will be administered and then routine in vitro fertilization will be performed.

Category

Treatment - Other

2**Description**

For control group superfact 500µg subcutaneously will be administered in day 21st of the menstrual period and then routine in vitro fertilization will be performed.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Infertility clinic of Alzahra Hospital

Full name of responsible person

Arefe Fakour

Street address

Alzahra Hospital, Baghshomal Sq.

City

Tabriz

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

AliReza Ostad Rahimi

Street address

Vice chancellor for research, Tabriz University of Medical Sciences, Daneshgah Avenue, Daneshgah Square

City

Tabriz

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Vice chancellor for research, Tabriz University of Medical Sciences
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
 Tabriz University of Medical Sciences
Full name of responsible person
 Arefe Fakour
Position
 Resident of Gynecology and Obstetrics
Other areas of specialty/work
Street address
 Alzahra Hospital, Baghshomal Sq.
City
 Tabriz
Postal code
Phone
 +98 41 1335 7310
Fax
Email
 a.fakour@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
 Tabriz University of Medical Sciences
Full name of responsible person
 Laya Farzadi
Position

Assistant professor of Obstetrics
Other areas of specialty/work
Street address
 Alzahra Hospital, Baghshomal Sq.
City
 Tabriz
Postal code
Phone
 +98 41 1335 7310
Fax
Email
 farzadi@tbzmed.ac.ir
Web page address

Person responsible for updating data

Contact

Name of organization / entity
 Tabriz University of Medical Sciences
Full name of responsible person
 Mehdi Hemmati
Position
 General physician
Other areas of specialty/work
Street address
 Emam Reza Hospital, Daneshgah Ave.
City
 Tabriz
Postal code
Phone
 +98 41 1658 4305
Fax
Email
 mehdi.hemmati@rocketmail.com
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