

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

Assessing the effect of nifedipine on success of embryo placement in infertile women who have been candidates for laboratory treatment

Protocol summary

Study aim

Nifedipen effect on uterin contractions during IVF

Design

Two arm parallel group randomized trial with blinded postoperative care and outcome assessment

Settings and conduct

Kosar infertility clinical, Motahari hospital, Orumia

Participants/Inclusion and exclusion criteria

Inclusion criteria: all women aged 15 to 45 who refer to Kosar infertility center who have frozen fetus and are candidates for embryo transfer treatment. Exclusion criteria: BMI>38; early stage of follicular phase; any kind of contraindication for pregnancy or continuing the pregnancy until the term; contraindications to consumption of Nifedipin, Estradiol or Progesteron; arrhythmia; taking drugs that interfere with cytochrome p450; treatment with other blood pressure medications.

Intervention groups

Patients who have undergone ICSI at the Kowsar Infertility Center and for some reason have a frozen fetus are given half a milligram of nifedipine tablets half an hour before the placement of the frozen embryos, and its effectiveness in suppressing uterine contractions and the success of transplanted embryo replacement is evaluated.

Main outcome variables

Uterin contractions

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210227050515N1**

Registration date: **2021-04-30, 1400/02/10**

Registration timing: **registered_while_recruiting**

Last update: **2021-04-30, 1400/02/10**

Update count: **0**

Registration date

2021-04-30, 1400/02/10

Registrant information

Name

Rana Razavi dizaji

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-09, 1400/01/20

Expected recruitment end date

2021-06-21, 1400/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessing the effect of nifedipine on success of embryo placement in infertile women who have been candidates for laboratory treatment

Public title

Assessing of effect of nifedipine on IVF

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Having a frozen embryo and a candidate for embryo

transfer Patients who are candidates for infertility treatment other than in vitro fertilization

Exclusion criteria:

Patients who are candidates for infertility treatment other than in vitro fertilization BMI>38 Contraindications to the use of nifedipine and estrogen or progesterone Patients treated with other drugs that interfere with nifedipine

Age

From **15 years** old to **45 years** old

Gender

Female

Phase

2-3

Groups that have been masked

- Participant

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are divided into two groups and based on the day of referral, they are placed in the control and intervention group. The referring patients will be given drug before transfers on even days of the week and will be placed in the intervention group. Patients will not be given any medication on odd days of the week and will be in the control group.

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients are divided into two groups and in order to prevent psychological stress, patients are given medicine to people who have visited on even days and patients are not given any medicine before transfer on individual days of the week.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Urmia University of Medical Sciences Ethics Committee

Street address

Urmia University of Medical Sciences, Nazlu

City

Orumie

Province

West Azarbaijan

Postal code

5714783734

Approval date

2018-11-14, 1397/08/23

Ethics committee reference number

IR.UMSU.REC.1397.324

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97

ICD-10 code description

Female infertility

Primary outcomes

1

Description

Beta HCG test positive rate after IVF

Timepoint

Two weeks after IVF

Method of measurement

Beta HCG test

Secondary outcomes

empty

Intervention groups

1

Description

IVF candidates who have a frozen fetus and are referred to Kowsar Infertility Center are divided into two groups and the intervention group is given nifedipine transfer at a dose of 5 mg orally half an hour before taking blood pressure after taking blood pressure. Patients will be given medication every other day due to psychological stress in the two groups receiving the drug and the group that did not receive the drug.

Category

Treatment - Devices

2

Description

Control group: patients entering the control group will not be given any medication and no intervention will be performed.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Kosar Infertility clinic of Motahari hospital

Full name of responsible person

Rana Razavi Dizaji

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Kosar infertility center, Motahari hospital, Kashani street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

Iraj Mohebbi

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Grant name

Vice Chancellor for Research, Urmia University of Medical Sciences

Grant code / Reference number

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

Yes

Title of funding source

Oroumia 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

Oroumia University of Medical Sciences

Full name of responsible person

Rana Razavi Dizaji

Position

Gynecologist

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Latest degree

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Other areas of specialty/work

Gynecology and Obstetrics

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Fax**Email**

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