

# 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)

###### Phone

+98 44 3366 6250

###### Email address

razavi.r@umsu.ac.ir

##### 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

**Street address**

Kosar infertility center, Motahari hospital, Kashani street

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**Sponsors / Funding sources**

1

**Sponsor**

**Name of organization / entity**

Oroumia University of Medical Sciences

**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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Masumeh Haj Shafi ha

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## Person responsible for updating data

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**Name of organization / entity**

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**Full name of responsible person**

Rana Razavi Dizaji

**Position**

ob/gynecologist

**Latest degree**

Specialist

**Other areas of specialty/work**

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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