

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

01 Jul 2026

### Comparison of endometrial thickness in the frozen embryo transfer (ET) with and without the use of gonadotropin-releasing hormone (GNRH) along with taking estradiol

#### Protocol summary

##### Study aim

Comparison of endometrial thickness in the freeze embryo transfer (ET) with and without the use of gonadotropin-releasing hormone (GnRH-a) along with taking estradiol

##### Design

This study is a non-blinded clinical trial. The study population will be included all infertile women referred to Motazedi hospital of Kermanshah city. A total of 65 eligible infertile women will be selected conveniently and randomly will be assigned to intervention and control groups.

##### Settings and conduct

This study which will be conducted in Motazedi hospital of Kermanshah city is non-blinded one. The day before progesterone begins, the thickness of the endometrium is done and is recorded in a checklist

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Less than or equal to 42 years old; Less than 10 mL / mlU of FSH level. Exclusion criteria: Patients with asthma, systemic diseases, gastrointestinal disorders

##### Intervention groups

The intervention group will receive 0.1 mg Gonadotropin-releasing hormone antagonists(GNRH-a) manufactured by Iran Hormones and OC tablets (with the 21 tablets per packs, manufactured by Iran Hormones)in addition to estradiol tablets. The control group only will receive estradiol.

##### Main outcome variables

Endometrial thickness

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20130812014333N109**

Registration date: **2018-12-15, 1397/09/24**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-12-15, 1397/09/24**

Update count: **0**

##### Registration date

2018-12-15, 1397/09/24

##### Registrant information

###### Name

Feizollah Foroughi

###### Name of organization / entity

kermanshah University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 83 1821 4653

###### Email address

fforoughi@kums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-12-06, 1397/09/15

##### Expected recruitment end date

2019-02-04, 1397/11/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of endometrial thickness in the frozen embryo transfer (ET) with and without the use of

gonadotropin-releasing hormone (GNRH) along with taking estradiol

### Public title

Comparison of endometrial thickness in frozen embryo transfer in infertile women

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Less than or equal to 42 years old Less than 10 mL / mIU of FSH level

#### Exclusion criteria:

Patients with asthma, Systemic diseases, Gastrointestinal disorders

### Age

To 42 years old

### Gender

Female

### Phase

2-3

### Groups that have been masked

No information

### Sample size

Target sample size: 65

### Randomization (investigator's opinion)

Randomized

### Randomization description

Randomly Individually by random number table via code receipt

### 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 Kermanshah University of Medical Sciences

##### Street address

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences, Building No.2, Shahid Beheshti

##### City

Kermanshah

##### Province

Kermanshah

##### Postal code

6715847141

### Approval date

2018-09-11, 1397/06/20

### Ethics committee reference number

ir.kums.rec.1397.518

## Health conditions studied

### 1

#### Description of health condition studied

Infertility

#### ICD-10 code

N00-N99

#### ICD-10 code description

Noninflammatory disorders of female genital tract

## Primary outcomes

### 1

#### Description

Endometrial thickness

#### Timepoint

The beginning and end of the study

#### Method of measurement

Using an ultrasound machine

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

The intervention group will receive 0.1 mg Gonadotropin-releasing hormone antagonists(GNRH-a) manufactured by Iran Hormones and OC tablets (with the 21 tablets per packs, manufactured by Iran Hormones)in addition to estradiol tablets

#### Category

Treatment - Drugs

### 2

#### Description

The control group only will receive estradiol.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Motazedi Hospital

##### Full name of responsible person

Maryam Fassihi

##### Street address

Ferdowsi Square

##### City

Kermanshah  
**Province**  
Kermanshah  
**Postal code**  
6715847141  
**Phone**  
+98 83 3728 4658  
**Email**  
Drfassihi92@gmail.com

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**  
Kermanshah University of Medical Sciences  
**Full name of responsible person**  
Dr. Farid Najafi  
**Street address**  
Vice Chancellor for Research Affairs, Kermanshah  
University of Medical Sciences, Building No.2, Shahid  
Beheshti  
**City**  
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**Province**  
Kermanshah  
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**Phone**  
+98 83 3836 0014  
**Email**  
fnajafi@kums.ac.ir  
**Grant name**  
**Grant code / Reference number**  
**Is the source of funding the same sponsor  
organization/entity?**  
Yes  
**Title of funding source**  
Kermanshah 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**  
Kermanshah University of Medical Sciences  
**Full name of responsible person**  
Maryam Fassihi  
**Position**  
Resident of Obstetrics and Gynecology  
**Latest degree**

Medical doctor  
**Other areas of specialty/work**  
Gynecology and Obstetrics  
**Street address**  
Emam Reza Hospital, Parastar Boulevard  
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Kermanshah  
**Postal code**  
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**Phone**  
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**Email**  
Drfassihi92@gmail.com

## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**  
Kermanshah University of Medical Sciences  
**Full name of responsible person**  
Dr.Taravat Fakheri  
**Position**  
Faculty Member of Kermanshah University of Medical  
Sciences  
**Latest degree**  
Subspecialist  
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## Person responsible for updating data

#### Contact

**Name of organization / entity**  
Kermanshah University of Medical Sciences  
**Full name of responsible person**  
Maryam Fassihi  
**Position**  
Resident of Obstetrics and Gynecology  
**Latest degree**  
Medical doctor  
**Other areas of specialty/work**  
Gynecology and Obstetrics  
**Street address**  
Emam Reza Hospital, Parastar Boulevard  
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Kermanshah  
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Kermanshah

**Postal code**

6715847141

**Phone**

+98 83 3427 6306

**Email**

Drfassihi92@gmail.com

## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is a plan to make this available

**Informed Consent Form**

Yes - There is a plan to make this available

**Clinical Study Report**

Yes - There is a plan to make this available

**Analytic Code**

Not applicable

**Data Dictionary**

Yes - There is a plan to make this available

**Title and more details about the data/document**

The main outcomes of the study will be shared.

**When the data will become available and for how long**

4months

**To whom data/document is available**

If requested, results will be made available to other academic researchers

**Under which criteria data/document could be used**

Collected data is confidential and will not be shared with anyone else

**From where data/document is obtainable**

To receive the documentation, email send for update manager

**What processes are involved for a request to access data/document**

In a 25-day period, the documents will be sent e-mail

**Comments**