

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### Evaluation of Efficacy and Safety of Enoxaparin in Treatment of Vascular Intra-Uterine Growth Retardation: A Randomized Clinical Trial

#### Protocol summary

##### Study aim

Role of enoxaparin in augmenting the intra-uterine growth in patients with vascular intra-uterine growth retardation

##### Design

Non-blinded, non-placebo controlled, randomized clinical trial with a sample size of 126 patients

##### Settings and conduct

This study will be carried out in a tertiary level referral hospital. Women aged >18 years old with singleton pregnancy and diagnosis of intra-uterine growth retardation are randomly allocated to 2 groups. In control group patients receive the routine standard treatments for intrauterine growth retardation. In intervention group, patients receive 4000 IU of enoxaparin daily as SC.

##### Participants/Inclusion and exclusion criteria

All >18 years old women with singleton pregnancy and diagnosed intra-uterine growth retardation

##### Intervention groups

4000 IU enoxaparin SC daily

##### Main outcome variables

Neonatal birth weight

#### General information

##### Reason for update

##### Acronym

IUGR: Intra-Uterine Growth Retardation

##### IRCT registration information

IRCT registration number: **IRCT20180819040830N4**

Registration date: **2020-05-01, 1399/02/12**

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

Last update: **2020-05-01, 1399/02/12**

Update count: **0**

##### Registration date

2020-05-01, 1399/02/12

#### Registrant information

##### Name

Zahra Naeiji

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 5506 2628

##### Email address

z.naeigi@sbmu.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

##### Expected recruitment start date

2019-12-26, 1398/10/05

##### Expected recruitment end date

2020-05-24, 1399/03/04

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

#### Scientific title

Evaluation of Efficacy and Safety of Enoxaparin in Treatment of Vascular Intra-Uterine Growth Retardation: A Randomized Clinical Trial

#### Public title

Enoxaparin in Treatment of Vascular Intra-Uterine Growth Retardation

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

##### Inclusion criteria:

>18 years old women with singleton pregnant women  
Diagnosis of intra-uterine growth retardation for their fetus

##### Exclusion criteria:

Maternal age <18 years old Multiple pregnanvy

### Age

From **18 years** old

### Gender

Female

### Phase

3

### Groups that have been masked

*No information*

### Sample size

Target sample size: **126**

### Randomization (investigator's opinion)

Randomized

### Randomization description

Computer-generated block of 4, block randomization

### 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 Tehran University of Medical Sciences

##### Street address

Qods St., Bolvar Keshavrz Blv.

##### City

Tehran

##### Province

Tehran

##### Postal code

13354234

#### Approval date

2019-12-23, 1398/10/02

#### Ethics committee reference number

IR.TUMS.MEDICINE.REC.1398.683

## Health conditions studied

### 1

#### Description of health condition studied

Intra-uterine growth retardation

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Birth weight

#### Timepoint

At delivery time

#### Method of measurement

Measuring neonatal birth weight by an electronic scale

## Secondary outcomes

### 1

#### Description

Enoxaparin side effects (including active bleeding due to enoxaparine use or thrombocytopena after beginning the enoxaparin

#### Timepoint

Any time after beginning the study

#### Method of measurement

History taking, physical exam, laboratory test

## Intervention groups

### 1

#### Description

Intervention group: 4000 IU per day SC enoxaparin

#### Category

Treatment - Drugs

### 2

#### Description

Control group: routine care

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Mahdiye hospital

##### Full name of responsible person

Zahra Naeiji

##### Street address

Shishegar Khane St., Fadayian Eslam Blv. Shoosh Sq.

##### City

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##### Province

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##### Postal code

1445763693

##### Phone

+98 21 5506 2628

##### Email

zahraaeiji98@yahoo.com

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Mohammad Ali Sahrayian

**Street address**

Qods St., Bolvar Keshavarz Blv.

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**Phone**

+98 21 8163 3698

**Email**

vcr@tums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Tehran 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**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Zahra Naeiji

**Position**

Assistant professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Gynecology and Obstetrics

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## Person responsible for scientific inquiries

**Contact****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

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**Position**

assistant professor

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## Person responsible for updating data

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Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

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## Sharing plan

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

No - There is not a plan to make this available

**Justification/reason for indecision/not sharing IPD**

"There is no further information"

**Study Protocol**

No - There is not a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

No - There is not a plan to make this available

**Clinical Study Report**

No - There is not a plan to make this available

**Analytic Code**

No - There is not a plan to make this available

**Data Dictionary**

No - There is not a plan to make this available