

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### Comparing effect of oral and vaginal evening primrose oil on cervical ripening in pregnant women

#### Protocol summary

##### Study aim

Comparing effect of oral and vaginal evening primrose oil on cervical ripening in pregnant women

##### Design

The clinical trial consists of 3 groups of 40 people, with control group with parallel groups and random allocation as block.

##### Settings and conduct

Women visited by the maternity ward of Hazrat-e-Valiasr hospital with criteria to enter the study, will be tested by bishop score. if they have a Bishop score less than 4 or equal to it, they will be considered as intervention group. Then the intervention group will be divided into two groups. The first group will receive the medication for one week every 12 hours and then, once a day, until the onset of labor pains orally and the second one will receive the capsule vaginally. The control group will receive no intervention. Eventually after the intervention, once again the Bishop score will be tested and compared.

##### Participants/Inclusion and exclusion criteria

Entry requirements: 1- Low-risk primiparous women 2- Bishop score less than or equal to 4 at the time of drug administration 3-Cephalic presentation of the fetus 4. Single pregnancy 5. Gestational age 39 weeks 6. Normal test of fetal health assessment within the last 48 hours  
Exclusion criteria: A history of uterine surgery

##### Intervention groups

In intervention groups from 39 week of pregnancy, both groups will take the evening primrose oil capsules every 12 hours for one week, and after that once a day, until the onset of labor pains. One of these groups will take the evening primrose oil capsules orally and the other group will take it vaginally. The control group will not receive any intervention.

##### Main outcome variables

Prepare cervix; improve labor; reduce duration of labor.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20200118046180N1**

Registration date: **2020-07-23, 1399/05/02**

Registration timing: **retrospective**

Last update: **2020-07-23, 1399/05/02**

Update count: **0**

##### Registration date

2020-07-23, 1399/05/02

##### Registrant information

##### Name

Parisa Heydari

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 35 3242 6594

##### Email address

parisa.heydary@yahoo.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2020-02-04, 1398/11/15

##### Expected recruitment end date

2020-06-19, 1399/03/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparing effect of oral and vaginal evening primrose oil on cervical ripening in pregnant women

**Public title**

effect of evening primrose oil on cervical ripening

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Primiparous and low-risk pregnant women Gestational age 39 weeks Cephalic presentation bishop score of 4 or less Single pregnancy

**Exclusion criteria:**

A history of uterine surgery

**Age**

From **18 years** old to **35 years** old

**Gender**

Female

**Phase**

3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **120**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Random allocation will be conducted in the form of Block Randomization. The first intervention group will be marked with the letter A, the second intervention group will be marked with the letter B, and the control group will be marked with the letter C. In the next step, six similar cards will be prepared and on each card, different rows of ABC letters (ABC, ACB, BCA,...) will be written, Each time a card is randomly selected, and after noting the order, it will be added again to the other cards. This process will continue until the sample size is completed.

**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 Tehran University of Medical Sciences

**Street address**

No.15, Shahid Tafakori Ave. Shohada Town

**City**

Bafq

**Province**

Yazd

**Postal code**

8971717479

**Approval date**

2019-10-15, 1398/07/23

**Ethics committee reference number**

IR.TUMS.FNM.REC.1398.134

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

Cervical ripening

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Cervical Preparation

**Timepoint**

Before the intervention and at the time of hospitalization for delivery

**Method of measurement**

Bishop's score measurement

**Secondary outcomes****1****Description**

Duration of hospitalization to delivery

**Timepoint**

Duration of hospitalization to delivery

**Method of measurement**

questionnaire

**2****Description**

Newborn Agar score

**Timepoint**

The first minute and Fifth minutes after birth

**Method of measurement**

questionnaire

**3****Description**

type of delivery

**Timepoint**

End of intervention

**Method of measurement**

questionnaire

**4****Description**

Need to induction  
**Timepoint**  
hospitalization until delivery  
**Method of measurement**  
questionnaire

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## Intervention groups

### 1

#### Description

First intervention group: In the first group, a bottle containing 1000 mg of evening primrose oil capsule made by Barij Essence Company will be given to mothers to use vaginally every week for 12 weeks from 39 weeks of pregnancy and then until the onset of labor pains once a day. If labor pains do not start or there are few contractions at the time of hospitalization, 10 oxytocin units will be induced.

#### Category

Treatment - Drugs

### 2

#### Description

second intervention group: In the second group, a bottle containing 1000 mg of evening primrose oil capsule made by Barij Essence Company will be given to mothers to use orally every week for 12 weeks from 39 weeks of pregnancy and then until the onset of labor pains once a day. If labor pains do not start or there are few contractions at the time of hospitalization, 10 oxytocin units will be induced.

#### Category

Treatment - Drugs

### 3

#### Description

Control group: In this group, no action will be taken before hospitalization for delivery, in case of non-onset of labor pains or low contractions of labor delivery, 10 units of oxytocin will be administered.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

**Name of recruitment center**  
Hazrat Valiasr Hospital  
**Full name of responsible person**  
Parisa Heydari Babdehooi  
**Street address**  
Bafq. valiasr Town  
**City**  
Bafq  
**Province**  
Yazd  
**Postal code**

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**  
Tehran University of Medical Sciences  
**Full name of responsible person**  
Dr MohamadAli Sahraiyani  
**Street address**  
Tohid Town, Doctor Mirkhani Ave  
**City**  
Tehran  
**Province**  
Tehran  
**Postal code**  
1419733171  
**Phone**  
+98 21 6105 4000  
**Email**  
parisa.heydari@yahoo.com

#### 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**  
Tehran University of Medical Sciences  
**Full name of responsible person**  
Parisa Heydari  
**Position**  
Midwife  
**Latest degree**  
Bachelor  
**Other areas of specialty/work**  
Midwifery  
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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

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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