

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jul 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	
<u>1</u>	
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	
<u>1</u>	
Description of health condition studied	Cervical ripening
ICD-10 code	
ICD-10 code description	
Primary outcomes	
<u>1</u>	
Description	Cervical Preparation
Timepoint	Before the intervention and at the time of hospitalization for delivery
Method of measurement	Bishop's score measurement
Secondary outcomes	
<u>1</u>	
Description	Duration of hospitalization to delivery
Timepoint	Duration of hospitalization to delivery
Method of measurement	questionnaire
<u>2</u>	
Description	Newborn Agar score
Timepoint	The first minute and Fifth minutes after birth
Method of measurement	questionnaire
<u>3</u>	
Description	type of delivery
Timepoint	End of intervention
Method of measurement	questionnaire
<u>4</u>	
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 Sahraiyen
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
Street address
No.15, Shahid Tafakori Ave. Shohada Town
City

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Person responsible for scientific 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
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Person responsible for updating data

Contact

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
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Position
Midwife
Latest degree
Bachelor
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