

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Evaluation of mechanical and non-mechanical methods of cervix ripening in women with preterm rupture of membrane (PROM)

Protocol summary

Study aim

The purpose of this study is comparison to compare the Foley catheter and Misoprostol for cervical ripening of labor in women with premature rupture of membranes (PROM).

Design

Clinical trial with 2 intervention groups, with parallel, non-blind, randomized, phase 2 groups on 104 patients. Random number table was used for randomization

Settings and conduct

This study will be reviewed in Al-Zahra Hospital and Taleghani Hospital of Tabriz University of Medical Sciences in the period between 1399 and 1400. 104 pregnant women with ruptured membranes (PROM), were selected. Participants were randomly allocated to induction of labor by Foley catheter or oral misoprostol in a 1:1 ratio. This study is not blind. In the group treated with Foley catheter will use a Foley catheter size 16 with a 30 cc balloon and other group 25 micro grams of misoprostol tablet will be administered sublingually.

Participants/Inclusion and exclusion criteria

Pregnant women over 34 weeks gestational age with premature rupture of membranes, singleton pregnancy, and cephalic presentation will be included in the study, and if gestational age is below 34 weeks, Failure to prove premature rupture of the membranes will be excluded.

Intervention groups

Intervention group 1: will use a Foley catheter size 16 with a 30 cc balloon. the location of the catheter will be checked every 1 hour by pulling the catheter. If the Foley catheter does not come out automatically, we will remove the catheter within 8 hours after the catheter is placed. Intervention group 2: 25 micro grams of misoprostol tablet was administered sublingually every 4 hours up to maximum dose of 6 during cervical ripening.

Main outcome variables

The primary outcome in this study (interval from preparation to cervix) is in both methods. and the secondary outcome included: maternal and neonatal

complications, cesarean delivery incidence.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20121224011862N4**

Registration date: **2020-10-25, 1399/08/04**

Registration timing: **registered_while_recruiting**

Last update: **2020-10-25, 1399/08/04**

Update count: **0**

Registration date

2020-10-25, 1399/08/04

Registrant information

Name

Farnaz Sahaf

Name of organization / entity

Women's Reproductive Health Research Center

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-09-25, 1399/07/04

Expected recruitment end date

2021-09-26, 1400/07/04

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of mechanical and non-mechanical methods of cervix ripening in women with preterm rupture of membrane (PROM)

Public title

Evaluation of mechanical and non-mechanical methods of cervix ripening in women with preterm rupture of membrane (PROM)

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Gestational age over 34 weeks with preterm rupture of membrane (PROM) Singleton pregnancy Absence of active labour Cephalic presentation Unfavorable cervix (bishop score of 6 or less)

Exclusion criteria:

Gestational age under 34 weeks Lack of proof of preterm rupture of membrane (PROM) bleeding Contraindications to natural childbirth Finding meconium in amniotic fluid at the beginning of the intervention Suspected of chorioamnionitis intrauterine growth restriction (IUGR) Having a history of cesarean section Breech presentation Multiple pregnancies

Age

No age limit

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **104**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization in this study will be done one by one (1: 1) using a table of random numbers. 104 matte and sealed envelope samples will be prepared. Randomization will be performed by a non-research person and The type of intervention will be written by random allocation on paper and placed inside the envelopes. Envelopes will be numbered from number 1 to the end. The first person will be given the first envelope and this will continue until the last desired number; There will be 52 people in group 1 and 52 people in group 2, for a total of 104 people.

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 Tabriz University of Medical Sciences

Street address

Third Floor, Central Building No.2, Golgasht St.

City

Tabriz

Province

East Azarbaijan

Postal code

5166616471

Approval date

2020-07-20, 1399/04/30

Ethics committee reference number

IR.TBZMED.REC.1399.393

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

Premature rupture of membranes

ICD-10 code

O42.90

ICD-10 code description

Premature rupture of membranes, unspecified as to length of time between rupture and onset of labor, unspecified weeks of gestation

Primary outcomes**1****Description**

Interval between induction commencement and obtaining bishop score of 6

Timepoint

During intervention

Method of measurement

In hour unit obtained by manual vaginal exam

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

delivery before 24 hours

Timepoint

up to 24 hours after intervention

Method of measurement

in hour unit obtained by questionnaire

2

Description

neonatal complications

Timepoint

up to 24 hours after birth

Method of measurement

questionnaire and apgar score

3

Description

oxytocin requirement

Timepoint

during intervention

Method of measurement

questionnaire

4

Description

maternal complications

Timepoint

24 hours after delivery

Method of measurement

questionnaire

5

Description

cesarean delivery incidence

Timepoint

up to 48 hours after intervention

Method of measurement

percentage unit obtained by questionnaire

Intervention groups

1

Description

The group under catheter intervention will use a Foley catheter size 16 with a 30 cc balloon. It will be inserted into the lower segment of the uterus using a sterile And will be filled with 30 cc of distilled water or normal saline, the location of the catheter will be checked every 1 hour by pulling the catheter. If the Foley catheter does not come out automatically, we will remove the catheter within 8 hours after the catheter is placed.

Category

Treatment - Devices

2

Description

In the group under the intervention with misoprostol, misoprostol tablets with a dose of 25 micrograms will be used sublingually, If the cervix is not ripped, the prescribed dose will be repeated 6 hours later. Oxytocin will be used to induce or enhance uterine contractions after cervical rape and bishop scores greater than or equal to 6. In the absence of effective labor contractions.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Farnaz Sahaf

Street address

Alzahra Hospital, South Artesh St.

City

Tabriz

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2

Recruitment center

Name of recruitment center

Taleghani Medical Research & Training Hospital

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Mohammad Samiei

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

Yes

Title of funding source

Tabriz 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**

Tabriz University of Medical Sciences

Full name of responsible person

Farnaz Sahaf

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Gynecology and Obstetrics

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Position

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Latest degree

Subspecialist

Other areas of specialty/work

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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