

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

The comparison of the efficacy of oral castor oil with vaginally misoprostol and vaginally misoprostol alone in the treatment of missed abortion

Protocol summary

Summary

The goal of research is to compare the efficacy of oral castor oil with vaginally misoprostol and vaginally misoprostol alone in the treatment of missed abortion. The method of study is randomized, triple blind, placebo controlled clinical trial. Study population are pregnant women with missed abortion referred to Taleghani Hospital. Inclusion criteria: missed abortion according to sonography exclusion criteria: severe anemia; sensitivity to prostaglandine; coagulopathy; acute liver disease; heart disease. 72 subjects are randomly divided in 2 groups (intervention and control). Intervention group receive misoprostol 800 microgram vaginally plus castor oil 60 ml orally. Control group receive misoprostol 800 microgram vaginally plus placebo 60 ml orally. If it does not response to primary dose, misoprostol would be repeated up to three times with 24 hours interval. Primary outcome is cervical dilatation

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201403244686N11**
Registration date: **2014-04-13, 1393/01/24**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-04-13, 1393/01/24

Registrant information

Name

Mehri Jamilian

Name of organization / entity

School of Medicine, Arak University of Medical

Sciences

Country

Iran (Islamic Republic of)

Phone

+98 86 1278 0660

Email address

mjamilian@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice president of education and research, Arak University of Medical Sciences

Expected recruitment start date

2014-03-30, 1393/01/10

Expected recruitment end date

2014-07-01, 1393/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of the efficacy of oral castor oil with vaginally misoprostol and vaginally misoprostol alone in the treatment of missed abortion

Public title

The comparison of the efficacy of oral castor oil with vaginally misoprostol and vaginally misoprostol alone in the treatment of missed abortion

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion: missed abortion according to sonography. Exclusion criteria: severe anemia; sensitivity to prostaglandine; coagulopathy; acute liver disease;

heart disease.

Age
From **18 years** old to **45 years** old

Gender
Female

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **72**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Triple blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Arak University of Medical Sciences

Street address
Basij Square

City
Arak

Postal code
3816149369

Approval date
2014-02-22, 1392/12/03

Ethics committee reference number
18-158-92

Health conditions studied

1

Description of health condition studied
treatment of missed abortion

ICD-10 code
O02.1

ICD-10 code description
Missed abortion Early fetal death with retention of dead fetus

Primary outcomes

1

Description
treatment of missed abortion

Timepoint
before intervention and four hour after intervention

Method of measurement
vaginal exam

Secondary outcomes

1

Description
drug side effects

Timepoint
before intervention and four hour after intervention

Method of measurement
vaginal exam

Intervention groups

1

Description
Intervention group receive misoprostol 800 microgram vaginally plus castor oil 60 ml orally. If it does not response to primary dose, mioprostol would be repeated up to three times with 24 hours interval.

Category
Treatment - Drugs

2

Description
Control group receive misoprostol 800 microgram vaginally plus placebo 60 ml orally. If it does not response to primary dose, mioprostol would be repeated up to three times with 24 hours interval.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Arak.University of Medical Sciences

Full name of responsible person
Mehri Jamilian

Street address
Taleghani Hospital

City
Arak

Sponsors / Funding sources

1

Sponsor
Name of organization / entity

Arak University of Medical Sciences
Full name of responsible person
 Dr.Ali Asghar Yaghobi
Street address
 Basij Square
City
 Arak
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Arak University of Medical Sciences
Proportion provided by this source
 100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
 Arak University of Medical Sciences
Full name of responsible person
 Mehri Jamilian
Position
 Board of Obstetric and Gynecology ,Assistant
 Professor
Other areas of specialty/work
Street address
 Taleghani Hospital
City
 Arak
Postal code
 3816149369
Phone
 +98 86 3278 0660
Fax
Email
 mjamilian@gmail.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
 Arak University of Medical Sciences
Full name of responsible person

Mehri Jamilian
Position
 Board of Obstetric and Gynecology,assistant
 Professor
Other areas of specialty/work
Street address
 Taleghani Hospital
City
 Arak
Postal code
 381969187
Phone
 +98 86 3278 0660
Fax
Email
 mjamilian@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
 Arak University of Medical Sciences
Full name of responsible person
 Mehri Jamilian
Position
 Board of Obstetric and Gynecology
Other areas of specialty/work
Street address
 Taleghani Hospital
City
 Arak
Postal code
 3819691187
Phone
 +98 86 3278 0660
Fax
Email
 mjamilian@arakmu.ac.ir
Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty