

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Induction of abortion in the first trimester by misoprostol or misoprostol with different dose of letrozol In women referring to Akbarabadi hospital in 1398-1399

Protocol summary

Study aim

Induction of abortion in the first trimester by misoprostol or misoprostol with different dose of letrozol In women referring to Akbarabadi hospital in 1398-1399

Design

Clinical trial with control group with mosaic group, randomized. Phase 2-3, on 114 patients undergoing abortion under 12 weeks, unilateral blindness and used for randomization by randomized block method

Settings and conduct

This clinical trial study is performed in Shahid Akbarabadi Hospital in Tehran. Patients seeking medical abortion under 12 weeks are included in the study. In the first intervention group letrozole 5 mg and misoprostol 800 mg tablets three doses every three hours vaginal, in the second intervention group letrozole 10 mg and misoprostol 800 mg three doses every three hours vaginal and in the control group placebo and misoprostol 800 mg Three doses are given every three hours vaginally.

Participants/Inclusion and exclusion criteria

Inclusion criteria:Age older than 18 years,Gestational age based on ultrasound findings less than 12 weeks, Patient and spouse satisfaction,Lack of systemic diseases such as hypertension, kidney disease,Hemoglobin greater than or equal to 10 g / l, diastolic blood pressure less than 95 mm Hg Exclusion criteria:Having an IUD,Any allergy to letrozole or misoprostol Liver disease, kidney failure, high blood pressure and asthma,Convulsions

Intervention groups

Letrozole 5 mg and misoprostol tablets 800 mg three doses at intervals of three hours vaginal Letrozole 10 mg and misoprostol tablets 800 mg three doses at intervals of three hours vaginal. Placebo and misoprostol tablets 800 mg three doses at intervals of three hours vagina

Main outcome variables

The interval between induction of abortion and the onset

of abortion, opening of the internal cervical opening and complete abortion are evaluated in all three groups.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160523028008N13**

Registration date: **2021-03-21, 1400/01/01**

Registration timing: **prospective**

Last update: **2021-03-21, 1400/01/01**

Update count: **0**

Registration date

2021-03-21, 1400/01/01

Registrant information

Name

Mohammad Faryadras

Name of organization / entity

Hamadan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 3428 9706

Email address

m.faryadras@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-05-05, 1400/02/15

Expected recruitment end date

2021-08-23, 1400/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Induction of abortion in the first trimester by misoprostol or misoprostol with different dose of letrozol In women referring to Akbarabadi hospital in 1398-1399

Public title

Induction of abortion in the first trimester by misoprostol or misoprostol with different dose of letrozo

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Age older than 18 years Gestational age based on ultrasound findings less than 12 weeks Patient and spouse satisfaction Lack of systemic diseases such as hypertension, kidney disease Hemoglobin greater than or equal to 10 g / l, diastolic blood pressure less than 95 mm Hg

Exclusion criteria:

Having an IUD Any allergy to letrozole or misoprostol Liver disease, kidney failure, high blood pressure and asthma Convulsions

Age

From **18 years** old

Gender

Female

Phase

2-3

Groups that have been masked

- Participant

Sample size

Target sample size: **114**

Randomization (investigator's opinion)

Randomized

Randomization description

The patients will be randomly assigned to interventions and control groups using block randomization. For this purpose, we will prepare six sheets of paper, writing on four sheets the name of the intervention and on the other two sheets the name of the control. The paper sheets will be pooled, placed in a container, and randomly drawn one at a time for each patient without replacement until all four sheets are drawn. The six paper sheets will be then placed back into the container, and this action repeated until the sample size is reached.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients are not aware of the type of intervention, so the study is a one-way blind.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Iran University of Medical Sciences

Street address

Iran University of Medical Sciences, Hemmat High Way

City

Tehran

Province

Tehran

Postal code

1168743514

Approval date

2021-02-21, 1399/12/03

Ethics committee reference number

IR.IUMS.FMD.REC.1399.766

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

Medical abortion

ICD-10 code

O08.9

ICD-10 code description

Complication following abortion and ectopic and molar pregnancy,unspecified

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

The interval between induction and abortion beginning and opening of cervical internal os

Timepoint

Until 24 hours after receiving Misoprostol, every 1 hou

Method of measurement

Sonography

2**Description**

The interval between induction and complete abortion

Timepoint

Until 24 hours after receiving Misoprostol, every 1 hour

Method of measurement

Sonography

Secondary outcomes

1

Description

Gastrointestinal problems (nausea or vomiting)

Timepoint

From receiving Letrozole until 24 hours after receiving Misoprostol

Method of measurement

Objective

Intervention groups

1

Description

Intervention group: Letrozole 10 mg and misoprostol tablets 800 mg three doses at intervals of three hours vaginal made by Abureyhan Pharmaceutical Company, Iran

Category

Treatment - Drugs

2

Description

Intervention group: Letrozole 5 mg and misoprostol tablets 800 mg three doses at intervals of three hours vaginal made by Abureyhan Pharmaceutical Company, Iran

Category

Treatment - Drugs

3

Description

Control group: Placebo and misoprostol tablets 800 mg three doses at intervals of three hours vaginal made by Abureyhan Pharmaceutical Company, Iran

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Akbar Abadi Hospital

Full name of responsible person

mojgan mokhtari

Street address

shahid Akbar Abadi Hospital, Ferdowsi Station, Molavi st, Tehran

City

Tehran

Province

Tehran

Postal code

1168743514

Phone

+98 21 6655 2972

Email

mokhtari.m@iums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Doctor Syed Ali Javad Mousavi

Street address

shahid Akbar Abadi Hospital, Ferdowsi Station, Molavi st, Tehran

City

Tehran

Province

Tehran

Postal code

1449614535

Phone

+98 21 8670 2506

Email

research-m@iums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Mojgan Mokhtari

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

shahid Akbar Abadi Hospital, Ferdowsi Station, Molavi st, Tehran

City

Tehran

Province

Tehran

Postal code

1168743514

Phone

+98 21 6655 2972

Email

mokhtari.m@iums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Mojgan Mokhtari

Position

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Gynecology and Obstetrics

Street address

Shahid Akbar Abadi Hospital, Ferdowsi Station, Molavi st, Tehran

City

Tehran

Province

Tehran

Postal code

1168743514

Phone

+98 912 761 1381

Email

mokhtari.m@iums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Mojgan Mokhtari

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

Street address

shahid Akbar Abadi Hospital, Ferdowsi Station, Molavi st, Tehran

City

Tehran

Province

Tehran

Postal code

116874354

Phone

+98 21 6655 2972

Email

mokhtari.m@iums.ac.ir

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 not a plan to make this available

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