Clinical Trial Protocol
Iranian Registry of Clinical Trials

27 May 2026

The efficacy of medical versus surgical abortion for first trimester therapeutic in Iran; A quasi experimental analysis

Protocol summary

Study aim
Comparison of the effectiveness of medical versus surgical strategy for first trimester therapeutic abortion

Design
Non-randomized controlled trial (quasi experimental analysis), with control group, parallel group, without blinding, on 140 women (70 for each group)

Settings and conduct
This study are performing with the participation and supervision of a gynecologist on patients referred to Akbarabadi Mothers Support Center, Hazrat Rasoul Akram Hospital and Firoozgar Hospital in Tehran during early six months of persian new year.

Participants/Inclusion and exclusion criteria
Women seeking first trimester therapeutic abortion at the age 18 to 45 without underlying diseases particularly the cancers

Intervention groups
The intervention group includes women who use the drug method (misoprostol) to perform the treatment process of abortion, The control group includes women who use surgery (curettage) to perform abortion treatment.

Main outcome variables
Success rate of abortion treatment in the first trimester of pregnancy, possible complications of each intervention including severe bleeding, infection, uterine injury

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20210916052504N1**
Registration date: **2021-11-20, 1400/08/29**
Registration timing: **prospective**
Last update: **2021-11-20, 1400/08/29**
Update count: **0**

Registration date
2021-11-20, 1400/08/29

Registrant information

Name
Saeed Husseini Barghazan

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2022-02-20, 1400/12/01

Expected recruitment end date
2022-08-21, 1401/05/30

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The efficacy of medical versus surgical abortion for first trimester therapeutic in Iran; A quasi experimental analysis

Public title
The efficacy of medical versus surgical abortion for first trimester therapeutic in Iran; A quasi experimental analysis

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Women seeking first trimester therapeutic abortion

Exclusion criteria:

Illegal abortions Underlying disease (including neoplasms)

Age

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

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **140**

Randomization (investigator's opinion)

Not randomized

Randomization description

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

Research Ethics Committees of Iran University of Medical Sciences

Street address

School of Health Management and Information Sciences, No. 6, Rashid Yasemi St. Vali –e Asr Ave, Tehran, Iran.

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Approval date

2020-04-06, 1399/01/18

Ethics committee reference number

IR.IUMS.REC.1399.068

Health conditions studied

1

Description of health condition studied

Missed abortion

ICD-10 code

O02.1

ICD-10 code description

Missed abortion

2

Description of health condition studied

Complications following (induced) termination of pregnancy

ICD-10 code

O04

ICD-10 code description

Complications following (induced) termination of pregnancy

3

Description of health condition studied

(Induced) termination of pregnancy with other and unspecified complications

ICD-10 code

O04.8

ICD-10 code description

(Induced) termination of pregnancy with other and unspecified complications

Primary outcomes

1

Description

Success rate of abortion treatment in the first trimester of pregnancy termonation

Timepoint

The patient's clinical condition based on the physician's opinion 14 days after receiving the first medication or surgery

Method of measurement

Questionnaire, test, imaging and doctor's opinion

Secondary outcomes

1

Description

Possible side effects of treatment include severe bleeding, need to repeat the abortion process, infection or damage to the uterus

Timepoint

Clinical status of the patient 14 days after receiving the first treatment intervention

Method of measurement

Questionnaire, test, imaging and doctor's opinion

Intervention groups

1

Description

Medical intervention with three doses of misoprostol 400 mg (with trade name Cytotec) sublingual and vaginal 6

hours apart

Category

Treatment - Drugs

2

Description

Dilation and curettage (D & C), the dilation of the cervix and surgical removal of part of the lining of the uterus and/or contents of the uterus by scraping and scooping along with 200 mg of misoprostol at the time of surgery and 6 hours after that

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrate Rasoole Akram Hospital

Full name of responsible person

Mohamad Hadian

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Recruitment center

Name of recruitment center

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Sponsors / Funding sources

1

Sponsor

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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

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
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Full name of responsible person
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Position
PhD Candidate
Latest degree
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Health Economy
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is 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
Yes - There is a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
No - There is not a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available
Title and more details about the data/document
This research is part of the dissertation of the PhD course in Health Economics, which is conducted at Iran University of Medical Sciences. Any sharing is done by this university.
When the data will become available and for how long
Second six month of 1401, central library of iran university of medical sciences
To whom data/document is available
In order to facilitate decisions at the level of the health system and policy makers, by physicians or patient preferences, as well as the researchers
Under which criteria data/document could be used
In order to facilitate decisions at the level of the health system and policy makers, by physicians or patient preferences
From where data/document is obtainable
Website or Central Library of Iran University of Medical Sciences
What processes are involved for a request to access data/document
Website or Central Library of Iran University of Medical Sciences

Comments