

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Effect of rectal Misoprostol in reducing blood loss before hysterectomy and myomectomy

Protocol summary

Study aim

Determining the effect of rectal misoprostol on reducing blood loss before hysterectomy and myomectomy

Design

Clinical trial with community-based and pragmatic control group, with parallel groups, double-blind, randomized

Settings and conduct

This double-blind clinical trial is performed on candidates for total hysterectomy with and without bilateral salpingo-ovariectomy and myomectomy due to symptomatic uterine fibromas that are admitted to the surgical ward of the Ayatullah Rohani hospital in Babol in 2017.

Participants/Inclusion and exclusion criteria

Age between 35 and 50 years, The number of uterine fibroids is 5 or less, The maximum size of the largest fiber is 3 cm, all fibroids are subserosa or intramural in ultrasound, Uterus size in two-handed examination is less than 24 weeks pregnancy if need for myomectomy, Exclusion criteria: Any contraindication for using Misoprostol, The presence of malignancy, History of previous laparotomy except cesarean section, History of endometriosis, Cardiovascular and pulmonary diseases, Bleeding disorders, Hemoglobin below 10 g / dl, Body mass index greater than 30 kg / m², Previous Myomectomy history, History of using misoprostol with GnRH immediately before surgery, Unwillingness to enter the study.

Intervention groups

The first group will receive 400 micrograms misoprostol (200 µg P.I.C High Wycombe, England) and the second group will receive placebo, rectally 30 minutes before surgery.

Main outcome variables

bleeding

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181020041394N1**

Registration date: **2018-11-30, 1397/09/09**

Registration timing: **registered_while_recruiting**

Last update: **2018-11-30, 1397/09/09**

Update count: **0**

Registration date

2018-11-30, 1397/09/09

Registrant information

Name

Azita Ghanbarpour

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3219 9592

Email address

a.ghanbarpour@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-13, 1397/03/23

Expected recruitment end date

2019-06-13, 1398/03/23

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of rectal Misoprostol in reducing blood loss before hysterectomy and myomectomy		
Public title	Effect of rectal Misoprostol in reducing blood loss before hysterectomy and myomectomy	Secondary Ids
Purpose	Prevention	empty
Inclusion/Exclusion criteria	Inclusion criteria: Age between 35 and 50 years The number of uterine fibroids is 5 or less The maximum size of the largest fiber is 3 cm All fibromas are subserosal or intramural in ultrasound Uterus size less than 24 weeks pregnant with two-handed examination if need for myomectomy Exclusion criteria: Any contraindication for using Misoprostol The presence of malignancy History of previous laparotomy except cesarean section History of endometriosis Cardiovascular and pulmonary diseases Bleeding disorders Hemoglobin below 10 g / dl Body mass index greater than 30 kg / m² Previous Myomectomy History History of using misoprostol with GnRH immediately before surgery Unwillingness to enter the study	Ethics committees
Age	From 35 years old to 50 years old	<u>1</u>
Gender	Both	Ethics committee
Phase	2	Name of ethics committee
Groups that have been masked	- Participant - Care provider - Investigator - Outcome assessor - Data analyser	Ethics Committee of Babol University of Medical Sciences
Sample size	Target sample size: 80 Actual sample size reached: 80	Street address
Randomization (investigator's opinion)	Randomized	Ganj Afrouz Avenue, Babol University of Medical Sciences
Randomization description	Samples will be divided into two groups by a simple random method. In this research, the coin toss will be used to create a random sequence in a two-group trial. So that one of the study groups is tail and the other group is considered as a head, and according to the sample size, the same amount of coin is tossed and the subjects are divided into two groups of random allocation.	City
Blinding (investigator's opinion)	Double blinded	Babol
Blinding description	All patients, nurses and researcher are blind in this study, and drug therapy is based on codes only by the head nurse of the gynecology department.	Province
Placebo	Used	Mazandaran
Assignment	Parallel	Postal code
Other design features		478956-1
		Approval date
		2018-05-13, 1397/02/23
		Ethics committee reference number
		IR.MUBABOL.HRI.REC.1397.114
		Health conditions studied
		<u>1</u>
		Description of health condition studied
		Uterine lymphoma
		ICD-10 code
		D25
		ICD-10 code description
		benign neoplasms of uterus with morphology code M889 and behaviour code /0 fibromyoma of uterus
		Primary outcomes
		<u>1</u>
		Description
		Amount of bleeding during surgery
		Timepoint
		After the end of the surgery
		Method of measurement
		Volume of available hemorrhage in the suction device and the counting and calculation of blood gases
		<u>2</u>
		Description
		Postoperative hemoglobin loss
		Timepoint
		Before surgery and 6 hours after surgery
		Method of measurement
		In grams per dL of the blood sample before surgery and 6 hours after surgery

Secondary outcomes

1

Description

Complications after surgery

Timepoint

From the time of transfer to the department up to two weeks after the operation

Method of measurement

The incidence of complications is noted

2

Description

The incidence of complications during surgery

Timepoint

During surgery

Method of measurement

The incidence of complications is noted

3

Description

Length of the surgery

Timepoint

During surgery

Method of measurement

From the time of the initial entry of the laparoscopic tooth skinning to the skin in minutes

4

Description

Hemodynamic changes during surgery

Timepoint

During surgery

Method of measurement

The mean of vital signs registered during anesthesia by anesthesiologist is in mm of mercury (blood pressure), beats per minute (heart rate), centimeters (body temperature)

Intervention groups

1

Description

Intervention group: The first group received 400 micrograms of rectal misoprostol (200 micrograms, P.I.C., High Wycombe, England) 30 minutes before surgery.

Category

Treatment - Drugs

2

Description

Control group: The second group received rectal placebo 30 minutes before surgery.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital Ayatullah Rouhani Babol

Full name of responsible person

Dr. Azita Ghanbarpour

Street address

Ayatullah Rouhani Hospital in Babol, Ganj Afrooz Avenue

City

Babol

Province

Mazandaran

Postal code

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Phone

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Email

a.ghanbarpour@mubabol.ac.ir

Web page address

<http://www.mubabol.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr. Reza Ghadimi

Street address

Babol University of Medical Sciences, Ganj Afrouz Avenue

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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

Babol 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**

Babol University of Medical Sciences

Full name of responsible person

Dr. Azita Ghanbarpour

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

Babol University of Medical Sciences

Full name of responsible person

Dr. Maedeh Molla Alipour

Position

Resident of Obstetrics and Gynecology

Latest degree

Medical doctor

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for updating data**Contact****Name of organization / entity**

Babol University of Medical Sciences

Full name of responsible person

Dr. Azita ghanbarpour

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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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**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