

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jul 2026

Comparison of the effect of rectal Misoprostol and Syntometrin in prevention of post partum hemorrhage

Protocol summary

Summary

This is a randomized double blind clinical trial to investigate the effect of rectal Misoprostol and Syntometrin in prevention of post partum hemorrhage. 200 pregnant women referred to the Shabihkhany hospital in Kashan for vaginal delivery were randomly assigned into one of following groups: The first group received 1 ml Syntometrine IM and the second group received 600 mgr misoprostol rectal after placental expulsion. Then, all patients were assessed 0.5 and 1 hour after delivery for uterine tonicity, pulse rate and blood pressure. 24 hours after delivery hemoglobin was checked for estimation of postpartum hemorrhage. Need for uterotonic drugs and rate of adverse effects were also compared between the intervention groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201008212854N5**

Registration date: **2010-09-09, 1389/06/18**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-09-09, 1389/06/18

Registrant information

Name

Masoumeh Abedzadeh Kalahroudi

Name of organization / entity

Kashan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Basic Science of Kashan University of Medical Sciences

Expected recruitment start date

2010-04-21, 1389/02/01

Expected recruitment end date

2010-09-21, 1389/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of rectal Misoprostol and Syntometrin in prevention of post partum hemorrhage

Public title

Comparison of the effect of rectal Misoprostol and Syntometrin in prevention of post partum hemorrhage

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: pregnant women with single pregnancy and candidate for vaginal delivery Exclusion criteria: Presence of preeclampsia, hypotension, heart disease, asthma, hypertonic uterus, uterine rupture, or vaginal and cervical laceration, being high risk for postpartum bleeding such as: multiparity, uterine myoma, history of postpartum bleeding, or need for uterine curettag

Age

From **15 years** old to **50 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 200

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kashan University of Medical Sciences

Street address

Ravand road Kashan University of Medical

City

Kashan

Postal code

Approval date

2010-08-02, 1389/05/11

Ethics committee reference number

1207/1/5/29/پ

Health conditions studied

1

Description of health condition studied

Post partum hemorrhage

ICD-10 code

Z39

ICD-10 code description

Postpartum care and examination

Primary outcomes

1

Description

Uterine tone

Timepoint

0.5 and 1 hours after delivery

Method of measurement

Assessment of uterine tone

2

Description

Hemoglobin level

Timepoint

Before and 24 hours after delivery

Method of measurement

Hemoglobine assessment

3

Description

Blood Pressure

Timepoint

immadiate, 30 minute and 1 hour after delivery

Method of measurement

by sphygnomanometer

4

Description

pulse

Timepoint

immadiately, 30 minute and 1 hours after delivery

Method of measurement

by counting

Secondary outcomes

1

Description

Adverse effects

Timepoint

During Hospitalization

Method of measurement

Observation of adverse effects

2

Description

Need to adminestration of utertonic drug

Timepoint

During 24 hours after delivery

Method of measurement

dosage and amount of drug

Intervention groups

1

Description

Syntometrin, 1 ml, IM in third stage of labour after placental expulsion

Category

Prevention

2

Description

Misoprostol, 1 ml, Rectal suppository in third stage of labour

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Shabihkhany Hospital

Full name of responsible person

Dr. Mansoureh Samimi

Street address

Shabihkhany Hospital, Beheshti Street

City

kashan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Basic Sciences, Kashan University of Medical Sciences

Full name of responsible person

Dr. Atlasi Mohammad Ali

Street address

Ravand road Kashan University of Medical Sciences

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kashan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for Basic Sciences, Kashan 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

Kashan University of Medical Sciences

Full name of responsible person

Masoumeh Abedzadeh kalahroudi

Position

MSc in Midwifery

Other areas of specialty/work

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Person responsible for scientific inquiries

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Other areas of specialty/work

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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