

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

Comparison of the effects of intramuscular methylergonovine, intravascular oxytocin, and sublingual prostaglandin (misoprostol) in active management of the third stage of labor

Protocol summary

Summary

In this study, 150 pregnant women with singleton low risk pregnancies and live fetuses will enroll and randomly divided into three groups of 50 patients. The participants will observed until labor. After delivery of the anterior shoulder, the first group will given 400 µg of sublingual misoprostol; the second group, a 0.2 mg single dose of intramuscular methylergonovine, and the third group receive 20 units of intravascular oxytocin,(these drugs are given only one time). Three parameters will be measured and compared between these groups: the amount of hemorrhage during third and fourth stages of labor, the duration of the third stage of labor, and the degree of decrease in blood hemoglobin level 24 hours after delivery

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201106143756N2**

Registration date: **2011-09-20, 1390/06/29**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-09-20, 1390/06/29

Registrant information

Name

Tarlan Hamidehkhoo

Name of organization / entity

Ahvaz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1222 2114

Email address

drnajafian.m@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapour University Of Medical Scienses

Expected recruitment start date

2010-11-21, 1389/08/30

Expected recruitment end date

2011-04-19, 1390/01/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of intramuscular methylergonovine, intravascular oxytocin, and sublingual prostaglandin (misoprostol) in active management of the third stage of labor

Public title

Comparison of the effects of intramuscular methylergonovine, intravascular oxytocin, and sublingual prostaglandin in prevention of post partum hemorrhage

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: women with singleton pregnancy; low risk pregnancies;live fetuses; cephalic presentation; normal blood pressure;no history of postpartum haemorrhage;no history of coagulation disorders;no history of heart disease;no history of seizure; no sever anemia(Hb less than 7) exclusion criteria: uterine atonia ;large lacerations with massive bleeding

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **150**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Vice-Chancellor For Research, Ahvaz University of
Medical Sciences

Street address

Vice-Chancellor For Research, Ahvaz University of
Medical Sciences ,golestan blvd,daneshgah square

City

Ahvaz

Postal code**Approval date**

2010-11-06, 1389/08/15

Ethics committee reference number

ETH034

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

Post partum haemorrhage

ICD-10 code

072.1

ICD-10 code description

Other immediate postpartum haemorrhage

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

Volume of Postpartum haemorrhage

Timepoint

One hour after delivery

Method of measurement

Scaled container and scaling of the pad in milliliter

2**Description**

Amount of hemoglobin drop

Timepoint

24 hours after delivery

Method of measurement

Check of hemoglobin

3**Description**

Duration of the third phase of parturition

Timepoint

From fetus delivery to expression of placenta

Method of measurement

Check of the time in second

Secondary outcomes**1****Description**

Nausea , vomiting, diarrhea and fever due to
misoprostole

Timepoint

1 and 2 hour after delivery

Method of measurement

Patient's symptoms and vital signs

2**Description**

Hypotension and water intoxication

Timepoint

1 and 2 hour after delivery

Method of measurement

Patient's symptoms and vital signs

3**Description**

Transient hypertension due to metergin

Timepoint

1 and 2 hour after delivery

Method of measurement

Patient's symptoms and vital signs

Intervention groups**1****Description**

After delivery of anterior shoulder 0.2mg metergin
IM,single dose

Category

Prevention

2

Description

After delivery of the anterior shoulder 20 unit oxytocin iv infusion,single dose

Category

Prevention

3

Description

After delivery of anterior shoulder 400 microgram misoprostole sublingual,single dose

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahvaz Emam Khomeini hospital

Full name of responsible person

Leila Fathinejad

Street address

Emam Khomeini hospital,ahvazian street,Azadegan avenue

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Jundishapour University Of Medical Sciences

Full name of responsible person

Dr. Mostafa Fegghi, Vice-Chancellor For Research

Street address

Ahvaz Jundishapour University Of Medical Sciences
Vice-Chancellor For Research,golestan
blvd,daneshgah square

City

Ahvaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Jundishapour 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

Ahvaz University of Medical Sciences

Full name of responsible person

Nahid Shahbazian

Position

Associated professor

Other areas of specialty/work

Street address

Emam Khomeini hospital,ahvazian street,azadegan avenue

City

Ahvaz

Postal code

Phone

+98 61 1222 2114

Fax

Email

shahbazian449@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Ahvaz Jundishapour University Of Medical Sciences

Full name of responsible person

Nahid Shahbazian

Position

Associated professor of obstethrics and gynecology

Other areas of specialty/work

Street address

Emam khomeini hospital, Ahvazian street, Azadegan avenue

City

Ahvaz

Postal code

Phone

+98 61 1222 2114

Fax

Email

shahbazian449@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Leila Fathinejad

Position

Resident of obstethrics and gynecology

Other areas of specialty/work

Street address

No 80, Shabani blvd, Zolfagari kooy

City

Behbahan

Postal code**Phone**

+98 67 1422 3544

Fax

+98 65 2322 0174

Email

Drfathi4@yahoo.com

Web page address**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

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Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty