

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Comparison effect of Carbetocine and Syntometrin in prevention of post partum hemorrhage

Protocol summary

Summary

This is a randomized double blind clinical trial to investigate the effect of Carbetocine 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 1 ml Carbetocin IM after placental expulsion. Then, all patients were assessed 0.5 and 1 hour after delivery for uterine tonicity and blood pressure. 24 hours after delivery hemoglobin was checked for estimation of postpartum hemorrhage. Need to uterotonic drugs and rate of adverse effects were also compared between intervention groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138810212854N2**
Registration date: **2010-03-15, 1388/12/24**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-03-15, 1388/12/24

Registrant information

Name

Masoumeh Abedzadeh Kalahroudi

Name of organization / entity

Kashan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 36 1555 0021

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kashan University of Medical Sciences

Expected recruitment start date

2010-01-21, 1388/11/01

Expected recruitment end date

2010-07-23, 1389/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison effect of Carbetocine and Syntometrin in prevention of post partum hemorrhage

Public title

Comparison effect of Carbetocine 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 curettage.

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 Sciences

City

Kashan

Postal code

Approval date

2009-01-18, 1387/10/29

Ethics committee reference number

4334/1/5/29/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

Secondary outcomes

1

Description

Need to administration of utertonic drug

Timepoint

During 24 hours after delivery

Method of measurement

dosage and amount of drug

2

Description

Adverse effects

Timepoint

During Hospitalization

Method of measurement

Observation of adverse effects

Intervention groups

1

Description

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

Category

Prevention

2

Description

Carbetocin, 1 ml, IM 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 research

Full name of responsible person

Dr. Gholamali Hamidy

Street address

Vice Chancellor for research, Kashan University of Medical Sciences, Ravand road

City

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 research

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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Obstetrician and Gynecologist

Other areas of specialty/work

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Position

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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