Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 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

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Masoumeh Abedzadeh Kalahroudi

Name of organization / entity
Kashan University of Medical Sciences

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Iran (Islamic Republic of)

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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 adminestration 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
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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