Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the effects of three doses of oxytocin on uterine tonicity and mother,s hemodynamic variables during Caesarean delivery

Protocol summary

Summary

The purpose of this study is to compare the effects of three doses of oxytocin on uterine tonicity and hemodynamic variables of women undergoing cesarean section under spinal anesthesia.60 patients randomly receive three different doses of oxytocin (infusion of 10 ,40 and 80 units in 1 hour) during surgery .Uterine tonicity is evaluated 5 and 15 minutes after infusion of oxytocin .Systolic , diastolic and mean arterial pressures measure before and then every 5 minutes after administration of oxytocin. Uterine tonicity and blood oressure compare betwween the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203102963N6**
Registration date: **2012-04-18, 1391/01/30**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-04-18, 1391/01/30

Registrant information

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Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2011-09-23, 1390/07/01

Expected recruitment end date

2012-09-22, 1391/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of three doses of oxytocin on uterine tonicity and mother,s hemodynamic variables during Caesarean delivery

Public title

Comparison of the effects of three doses of Uterine retractor on uterine tonicity and mother,s blood pressure during Caesarean delivery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: ASA I ,18-35 years, singleton full term pregnant women candidate for caesarean delivery because of previous caesarean delivery exclusion criteria:active labour ,ruptured membranes ,known drug allergy to oxytocin ,multiple gestation ,significant obstetric disease (including preeclampsia, eclampsia),BMI>35 ,known risk factors for postpartum haemorrhage (including abnormal placentation , multiple gestation , uterine fibroids) coagulation disorder , and thrombocytopenia .

Age

From **18 years** old to **35 years** old

Gender

Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **60**
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
Shahid Sadoughi University of Medical Sciences
Street address
Bahonar square
City
Yazd
Postal code
Approval date
2011-09-13, 1390/06/22
Ethics committee reference number
78749

Health conditions studied

1

Description of health condition studied
oxytocin
ICD-10 code
O61.0
ICD-10 code description
Failed medical induction of labour

Primary outcomes

1

Description
Uterine tonicity
Timepoint
5 and 15 minutes after administration of oxytocin
Method of measurement
clinical evaluation and related score

2

Description
systolic blood pressure
Timepoint
every 2 minutes from administration of oxytocin to end of surgery
Method of measurement
blood pressure monitoring device

3

Description
diastolic blood pressure
Timepoint
every 2 minutes from administration of oxytocin to end of surgery
Method of measurement
blood pressure monitoring device

4

Description
heart rate
Timepoint
every 2 minutes from administration of oxytocin to end of surgery
Method of measurement
electrocardiography monitoring

Secondary outcomes

empty

Intervention groups

1

Description
oxytocin 10 units/hour during surgery
Category
Treatment - Drugs

2

Description
40 units oxytocin /hour during surgery
Category
Treatment - Drugs

3

Description
80 units oxytocin / hour during surgery
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center

Shahid Sadoughi Hospital
Full name of responsible person
Dr.Shekoufeh Behdad
Street address
City
Yazd

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Dr. Hasan Mozaffari
Full name of responsible person
Shahid Sadoughi University of Medical Sciences
Street address
Bahonar square
City
Yazd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Dr. Hasan Mozaffari
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

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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