

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 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 between 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

Name

Shekoufeh Behdad

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 1822 1386

Email address

drbehdad@ssu.ac.ir

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

Contact

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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