

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Effect of three different doses of oxytocin infusion on hemodynamic changes in cesarean delivery

Protocol summary

Summary

the purpose of this study was to compare the effect of three different doses of oxytocin infusion on hemodynamic changes in cesarean delivery . in this randomised double blinded clinical trial study 120 patients age 18-35 years old and BMI 20-35 by American Society of Anesthesia (ASA) physical status I underwent for non emergency repeated cesarean delivery under spinal anesthesia were divided in 3 groups and then each group received 10 or 40 or 80 units of oxytocin infusion after delivery. Systolic blood pressure, diastolic blood pressure, mean arterial blood pressure and heart rate at 30 seconds before oxytocin infusion and each 5 minutes to 30 minutes after that was recorded. blood loss and received serum, uterine tone 5 and 15 minutes after placenta removal, nausea and vomiting were recorded in a questionnaire too.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201407082963N18**

Registration date: **2014-08-11, 1393/05/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-08-11, 1393/05/20

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

vice chancellor of Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2012-03-19, 1390/12/29

Expected recruitment end date

2013-03-20, 1391/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of three different doses of oxytocin infusion on hemodynamic changes in cesarean delivery

Public title

Effect of three different doses of oxytocin infusion on hemodynamic changes in cesarean delivery

Purpose

Treatment

Inclusion/Exclusion criteria

included criteria: all Patients age 18-35 years old and BMI 20-35 by American Society of Anesthesia (ASA) physical status I underwent for non emergency repeated cesarean delivery under spinal anesthesia. excluded criteria: BMI>35; chronic hypertension; placenta previa; placenta precrata; placenta abruption; placental collaps; gestational age <28 weeks; polyhydroamnious; thrombocytopenia (plt<70000); risk factors of bleeding and history of tocolytic drugs and Aspirin use.

Age

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

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

N/A

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

Ethical Committee of Shahid Sadoughi University of Medical Sciences

Street address

Yazd, Bahonar square

City

Yazd

Postal code

Approval date

2012-08-25, 1391/06/04

Ethics committee reference number

73894/1/17/پ

Health conditions studied

1

Description of health condition studied

hemodynamic changes in cesarean delivery

ICD-10 code

O82.0

ICD-10 code description

Delivery by elective caesarean section

Primary outcomes

1

Description

diastolic blood pressure

Timepoint

30 seconds before oxytocin infusion and each 5 minutes to 30 minutes after the that

Method of measurement

by sphygmomanometer

2

Description

systolic blood pressure

Timepoint

30 seconds before oxytocin infusion and each 5 minutes to 30 minutes after the that

Method of measurement

by sphygmomanometer

3

Description

heart rate

Timepoint

30 seconds before oxytocin infusion and each 5 minutes to 30 minutes after the that

Method of measurement

by sphygmomanometer

4

Description

mean arterial blood pressure

Timepoint

30 seconds before oxytocin infusion and each 5 minutes to 30 minutes after the that

Method of measurement

by sphygmomanometer

Secondary outcomes

1

Description

uterine tone

Timepoint

5 to 15 minutes after placenta removal

Method of measurement

by physical exam

2

Description

nausia and vomiting

Timepoint

after awariness of patient

Method of measurement

by direct asking

Intervention groups

1

Description

case group 1: oxytocin 10 units

Category

Treatment - Drugs

empty

2

Description

case group 2: oxytocin 40 units

Category

Treatment - Drugs

3

Description

case group 3: oxytocin 80 units

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Sadoughi Hospital

Full name of responsible person

Dr Shekofeh Behdad

Street address

Shahid Sadoughi Hospital

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

vice chancellor of Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr Hassan Mozaffari

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

vice chancellor of Shahid Sadoughi 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

Person responsible for general inquiries

Contact

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr Shekofeh Behdad

Position

associate professor, Department of anesthesiology

Other areas of specialty/work

Street address

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Person responsible for scientific inquiries

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Name of organization / entity

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Position

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Other areas of specialty/work

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Person responsible for updating data

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Name of organization / entity

Shahid Sadoughi 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