

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison two methods of oxytocin use after delivery

Protocol summary

Summary

This study was performed to compare the oxytocin bolus and infusion effects on maternal hemodynamics and also the outcome of the third stage of labor. This double-blinded clinical trial was carried out on 200 normal vaginal delivery (NVD) patients of Shabihkhani Hospital in Kashan during 2007-2008. The patients were divided into 2 equal groups (n=100): the intervention group received 10 IU oxytocin as bolus post- delivery and the control group received 10 IU oxytocin in 500 cc normalsalin 125 cc/h. Maternal hemodynamic (pulse rate, systolic and diastolic blood pressures at the admission time and 1, 5, 10, and 20 min post-delivery) and the outcome of the third stage of labor (duration of the third stage of labor, requirement for uterotonic agents, hemoglobin at the in admission time and 6 hour after delivery, and placental retention) were compared between both groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138812043413N1**

Registration date: **2010-04-15, 1389/01/26**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-04-15, 1389/01/26

Registrant information

Name

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Name of organization / entity

Tarbiat Modares University

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Recruitment status

Recruitment complete

Funding source

Kashan University of Medical Sciences, Vice-chancellor for Research

Expected recruitment start date

2007-01-20, 1385/10/30

Expected recruitment end date

2008-03-01, 1386/12/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison two methods of oxytocin use after delivery

Public title

Comparison two methods of oxytocin use after delivery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: woman with vaginal delivery after 20 week gestation without instrumentation, age between 18 and 40 yrs, singleton pregnancies, parity equal or less than 5, Iranian nationality. Exclusion criteria: Allergy to oxytocin, Presence of any medical or obstetric diseases (including pregnancy-induced hypertension disorders, hypertention, heart diseases, coagulation disorder), known risk factors for postpartum haemorrhage (including abnormal placentation, uterine fibroids, history of postpartum hemorrhage or uterine atony, polyhydramnious , clinical chorioamnionitis , precipitant labor)

Age

From **18 years** old to **40 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**

Used

Assignment

Other

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Kashan University of Medical Sciences, Kashan

Street address

Kashan University of Medical Sciences, 5th km of Ravand Road, Kashan.

City

Kashan

Postal code

87111-87155

Approval date

2009-08-20, 1388/05/29

Ethics committee reference number

29/5/1/1477/پ

Health conditions studied**1****Description of health condition studied**

control of third stage

ICD-10 code

O72.0

ICD-10 code description

Third-stage haemorrhage

Primary outcomes**1****Description**

Maternal pulse rate and blood pressure

Timepoint

At the admission time and 1, 5, 10, 20 min after delivery

Method of measurement

Maternal pulse rate per mim and blood pressure left hand by using mercury manometer in supine position by obstetric and gynecologist resident physician

Secondary outcomes**1****Description**

Third stage delivery outcome

Timepoint

Immediately after delivery to half an hour for duration of third stage and placenta retention, an hour after delivery for determination of additional uterotonic agent and Hb at the admission time and 6 hours after delivery

Method of measurement

Maternal pulse rate per mim and blood pressure of left hand by using mercury manometer in supine position by obstetric and gynecologist resident physician

Intervention groups**1****Description**

Oxytocin, 10 unit as bolus after delivery

Category

Prevention

2**Description**

Oxytocin, 10 IU infusion in 500 cc normal saline with a rate of 125 cc/h

Category

Prevention

Recruitment centers**1****Recruitment center****Name of recruitment center**

Kashan skabinkhani maternity hospital

Full name of responsible person

Zohreh Sadat

Street address

Midwifery group, Kashan University of Medical Sciences, Kashan

City

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Kashan University of Medical Sciences, Vice-

chancellor for Research

Full name of responsible person

Gholam Ali Hamidi

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Department of Physiology & Pharmacology, Kashan
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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Kashan University of Medical Sciences, 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

Dr. Fatameh Foroozanfard

Position

Obstetrician and Gynecologist, Assistant Professor

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