Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

Assessment of the efficacy of using intraumbilical vein injection of oxytocin in active management of the third stage of labor

Protocol summary

Summary

The aim of this study is to Assess the efficacy of using intraumbilical vein injection of oxytocin in active management of the third stage of labor. women who had a term pregnancy and parity1 to 3 undergoing vaginal delivery without any risk factor for postpartum hemorrhage recruited.200 women were divided into 2 groups (100cases and 100 controls). 20 units of oxytosin diluted in 1 liter of ringer (speed:200 miliunits in a minute) was used in both,after delivery of baby. intervention group assigned to receive10 international units of oxytocin diluted in 9cc ringer by intraumbilical vein injection and 10cc ringer by peripheral vein injection. control group assigned to receive 10cc ringer by intraumbilical vein injection and 10 international units of oxytocin diluted in 9cc ringer by peripheral vein injection. Then decrease in hemoglobin levels in 24 hours from labor, duration of the third stage of labor,using transfusion, additional uterotonics,manual or instrumental removal of placenta were assessed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204179491N1**
Registration date: **2012-05-04, 1391/02/15**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-05-04, 1391/02/15

Registrant information

Name

Reyhaneh Ramezaninezhad

Name of organization / entity

Qazvin University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical Sciencs

Expected recruitment start date

2011-12-28, 1390/10/07

Expected recruitment end date

2012-03-18, 1390/12/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of the efficacy of using intraumbilical vein injection of oxytocin in active management of the third stage of labor

Public title

Assessment of the efficacy of using intraumbilical vein injection of oxytocin after delivery of newborn in reducing postpartum hemorrhage

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : vaginal delivery;gestational age 37-42 weeks;singleton pregnancy;live fetus;cephalic presentation;neonatal birth weight 2500-4500 gram;parity 1-3. exclusion criteria : blood pressure140/90 or greater;placenta previa;placental abruption;abnormal placentation;instrumental

delivery;history of postpartum hemorrhage; history of curretage or cesarean delivery or any uterine scar;coagulopathy;hydramnios;known uterine anomaly;large episiotomy or vaginal lacerations those were repaired in operation room.

Age
No age limit

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
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee Qazvin university of medical sciences

Street address
Qazvin University of Medical Sciences , Shahid bahonar Blvd , Qazvin

City
Qazvin

Postal code

Approval date
2011-12-26, 1390/10/05

Ethics committee reference number
20/4450/د

Health conditions studied

1

Description of health condition studied
postpartum hemorrhage

ICD-10 code
O72.0

ICD-10 code description
Third-stage haemorrhage

Primary outcomes

1

Description
Assessment of the efficacy of using intraumbilical vein injection of oxytocin in active management of the third stage of labor in reducing postpartum hemorrhage

Timepoint
24 hours after intervention

Method of measurement
hemoglobin level(gr/dl)

Secondary outcomes

1

Description
incidence of retained placenta need for manual removal of placenta in each group

Timepoint
in third stage of labor

Method of measurement
percentage

2

Description
incidence of using additional uterotonics in each group

Timepoint
during the third stage of labor and 24 hours later

Method of measurement
percentage

3

Description
incidence of falling hemoglobin levels in each group

Timepoint
during the third stage of labor and 24 hours later

Method of measurement
gr/dl

4

Description
duration of the third stage of labor in each group

Timepoint
during the third stage of labor

Method of measurement
minutes and seconds

5

Description
incidence of transfusion after delivery in each group

Timepoint
during 24 hours after delivery

Method of measurement
percentage

Intervention groups

1

Description
Intervention group: in the third stage of labor,after clamping of umbilicus,10 international units of oxytocin diluted in 9 mililiter of ringer was injected in intraumbilical vein(proximal to the clamp). 10 mililiter of ringer as placebo was injected in peripheral vein during 2 minutes.
Category
Treatment - Drugs

2

Description
Control group:in the third stage of labor,after clamping of the umbilicus,10 milliliter of ringer was injected intraumbilical vein and 10 international units of oxytocin diluted in 9 milliliter of ringer was injected in peripheral vein during 2 minutes.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Kosar Hospital
Full name of responsible person
Reyhaneh Ramezaninezhad
Street address
Kosar Hospital , Kosar Avenue ,Taleghni Street , Qazvin
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Qazvin University of Medical Sciences
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Dr Saeed Assefzadeh
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City
Qazvin
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Qazvin 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
empty

Person responsible for general inquiries

Contact
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Person responsible for scientific 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