

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 Ramezanezhad

Name of organization / entity

Qazvin University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical Sciences

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

20/4450/3

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 milliliter of ringer was injected in intraumbilical vein (proximal to the clamp). 10 milliliter 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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Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Dr Saeed Assefzadeh

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Qazvin University of Medical Sciences , Shahid bahonar Blvd , Qazvin

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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

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Reyhaneh Ramezaninezhad

Position

Resident

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