Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Jul 2026

The effect of sequential administration of oxytocin and sublingual nitroglycerin for delivery of retained placenta.

Protocol summary

Summary

Objective: The effect of sequential administration of oxytocin and sublingual nitroglycerin for delivery of retained placenta. Design: clinical trial. Setting and conduct: double blind randomized. Participants: Inclusion criteria : maternal age between 18- 40; gestational age of 26 completed weeks and more; singleton pregnancy; vaginal delivery and no placental delivery up to 30 minutes after neonatal birth despite of intramuscular oxitocine prescription and controlled cord traction .Exclusion criteria: any known systemic disorders; severe bleeding; known uterine malformations and suspicion for placenta accreta. Intervention: In one group (40 women) two tablets of 0.5 milligram nitroglycerine (1 milligram in total) and in the other group (40 women) 2 tablets of placebo will be prescribed sublingual. Main outcome: delivery of retained placenta.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201405222624N16**
Registration date: **2014-06-22, 1393/04/01**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-06-22, 1393/04/01

Registrant information

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Maryam Kashanian
Name of organization / entity
Iran University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Investigator.

Expected recruitment start date

2014-06-22, 1393/04/01

Expected recruitment end date

2015-04-21, 1394/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of sequential administration of oxytocin and sublingual nitroglycerin for delivery of retained placenta.

Public title

Delivery of retained placenta .

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria : maternal age between 18- 40; gestational age of 26 completed weeks and more; singleton; vaginal delivery and no placental delivery up to 30 minutes after neonatal birth despite of intramuscular oxitocine prescription and controlled cord traction . Exclusion criteria: any known systemic disorders; severe bleeding; known uterine malformations and suspicion for placenta accreta.

Age

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

Gender

Female

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **80**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethic comittee of Iran University of Medical Sciences
Street address
Hemmat highway, Chamran Cross
City
Tehran
Postal code
Approval date
2014-04-29, 1393/02/09
Ethics committee reference number
93/493 /105/د

Health conditions studied

1

Description of health condition studied
Retained placenta
ICD-10 code
O73.0
ICD-10 code description
Retained placenta without haemorrhage

2

Description of health condition studied
Retained placenta
ICD-10 code
O43.2
ICD-10 code description
Morbidly adherent placenta

3

Description of health condition studied
Retained placenta
ICD-10 code
O94
ICD-10 code description
Sequelae of complication of pregnancy, childbirth and the puerperium

Primary outcomes

1

Description
delivery of retained placenta
Timepoint
5 minutes after prescription.
Method of measurement
Data sheets

Secondary outcomes

1

Description
amount of bleeding
Timepoint
the day after delivery
Method of measurement
hemoglobin concentration.

Intervention groups

1

Description
Intervention group: sublingual prescription of two 0.5 milligram tablets of nitroglycerin.
Category
Treatment - Drugs

2

Description
Control group: sublingual prescription of two tablets of placebo.
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Akbarabadi Teaching Hospital
Full name of responsible person
Maryam Kashanian
Street address
Molavi avenue, Molavi Cross.
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research ,Iran University of Medical Sciences.
Full name of responsible person
Dr Seyed Ali Javad Mousavi
Street address
Hemmat High way, Chamran Cross.
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research ,Iran 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

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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