Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Nov 2026

Comparison of placenta drainage and routin Method of removal of placenta on the outcome of third Stage of Delivery.

Protocol summary

Summary

The effect of placental drainage after spontaneous vaginal delivery on third stage of labour Objective: To assess the effect of placental cord drainage on the duration of third stage of labor, and to clarify the safety of this method regarding to postpartum hemorrhage, retained placenta, incidence of manual removal of placenta, atony. Inclusion criteria: Natural vaginal delivery; pregnancy with vertex presentation ; Term pregnancy (37-42 weeks); Singelton pregnancy; Absence placental disorders and neonatal congenital anomaly in perinatal ultrasound examination; The absence of medical and obstetric conditions in the mother. Exclusion criteria: previous history of curtage; Instrumental delivery(Vacum ,Forceps); Maternal coagulation disorder. Material and Method: Four hundred women having vaginal delivery were divided into drainage group(200 women) and control group (200 women) .In both groups, management of third stage of labour was performed with active method and for removal of placenta was used Brandt- Andrew method with maternal pushing. The duration of third stage was compared as the primary outcome. The incidence of postpartum hemorrhage, retained placenta, incidence of manual removal of placenta, atony were compared. Keywords: Third stage of labor, Placental cord drainage, Postpartum hemorrhage, Retained placenta, Manual removal of placenta.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014041917341N1**
Registration date: **2017-10-15, 1396/07/23**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-10-15, 1396/07/23

Registrant information

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Recruitment status

Recruitment complete

Funding source

Research Vice-Presidency Of Isfahan(Khorasgan) Islamic Azad University

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2016-02-20, 1394/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of placenta drainage and routin Method of removal of placenta on the outcome of third Stage of Delivery.

Public title

The effect of placental drainage on the duration of third stage of labour

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Natural vaginal delivery; pregnancy with vertex presentation ; Term pregnancy (37-42 weeks); Singelton pregnancy; Absence placental disorders and neonatal congenital anomaly in perinatal ultrasound examination; The absence of medical and obstetric conditions in the mother. Exclusion criteria: previous history of curtage; Instrumental delivery(Vacum ,Forceps); Maternal coagulation disorder.

Age

From **16 years** old to **43 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **400**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Najafabad Islamic Azad University

Street address

University Sq, Najafabad, Isfahan, Iran

City

Najafabad

Postal code

Approval date

2017-08-22, 1396/05/31

Ethics committee reference number

IR.IAU.NAJAFABAD.REC.1396.39

2

Ethics committee

Name of ethics committee

Isfahan (Khorasgan) Islamic Azad University

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University Blvd, Argavaniyeh, Jay street.

City

Isfahan

Postal code

Approval date

2017-08-22, 1396/05/31

Ethics committee reference number

96-04-14-5-4513

Health conditions studied

1

Description of health condition studied

Outcome of third stage of labour

ICD-10 code

O72,O73,O7

ICD-10 code description

Postpartum haemorrhage,Retained placenta and membranes, without haemorrhage,Other complications of labour and delivery, not elsewhere classified

Primary outcomes

1

Description

duration of 3rd stage of delivery

Timepoint

At the same time study

Method of measurement

Using a stopwatch in seconds

Secondary outcomes

1

Description

Retained placenta

Timepoint

At the same time study

Method of measurement

The presence or absence of retention

2

Description

Manual removal of placenta

Timepoint

At the same time study

Method of measurement

The number of cases of Manual removal of placenta

3

Description

Postpartum hemorrhage

Timepoint

At the same time study

Method of measurement

Just a visual check

Intervention groups

1

Description

Routine intervention active management of third stage of labour (the control group): Immediately after the birth of the baby, the umbilical cord is clamped with two forceps (at a distance of 4-5 cm in the fetus) and cut between them and the baby is placed in the baby's cot. 20 units of oxytocin immediately after delivery of the baby is injected at 1000 cc of the ringer's syringe and infused with a velocity of 20-10 ml / min (200-200 ml / min),then clamped and cut umbilical cord of baby and from that time on, we calculate the time with the stopwatch, Check signs of placental separation, For up to 30 minutes, we allow placenta to be separated spontaneously and after the signs of separation of the placenta, With one hand, hold the uterus from the abdomen and with another hand pull it down with a cord (Brandt- Andrew maneuver), and at the same time encourages the mother push to delivery of placenta. After the delivery of the placenta, take it with two hands and turn it until the membrance are screwed and we pull out all membrance with a gentle stretch. At this time, stop the stopwatch . thus, the length of the third stage of labor is determined. Then massage the uterus and make sure of its contraction. Then check the placenta and membrance to make sure that it is complete. In the absence of delivery of placenta up to 30 minutes or a large bleeding, the Manual removal of placenta is done.

Category

Prevention

2

Description

Placental cord drainage active management of third stage of labour(In the study group): All actions in this group are as before. Only after the birth of a baby When the cord clamped and cut it and put the baby in the baby's cot, unclamped the cord and left open to drain blood in a vessel until flow ceased. Cord is slightly wrinkled (placenta drainage). And the rest of the actions are the same as the control group. Up to one hour after the delivery of the placenta in both groups, the uterus contraction and the rate of receiving uterotonic drugs are checked.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Isfahan Hospitals

Full name of responsible person

Molaie Ghazaleh

Street address

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Vice-Presidency Of Isfahan(Khorasgan) Islamic Azad University

Full name of responsible person

Masah Ahmadreza

Street address

University Blvd, Argavaniyeh, Jey street.

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Vice-Presidency Of Isfahan(Khorasgan) Islamic Azad University

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

Isfahan (Khorasgan) Islamic Azad University

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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