

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

The efficacy of maternal position in labor to correct occipito-posterior fetal position and delivery outcome

Protocol summary

Summary

We designed a randomised clinical trial to evaluate the efficacy of maternal position in labor to correct occipito-posterior fetal position and delivery outcome. A total of 180 women entered the study based on inclusion and exclusion criteria. Occipitoposterior position of fetal head in all of the samples was confirmed using ultrasound. Participants were randomly assigned into one of three groups: Forty five women were selected to the intervention group one: they spent 15-30 minutes per hour of labor in a semi prone position. Forty five women were selected to the intervention group two: they spent 15-30 minutes per hour of labor in a knee-chest position. Ninety women were selected to the control group that they spent more of their labor in current position (recumbent or supine). The most important outcomes of the study including the determination of occipitoanterior position; fetal head position at delivery; duration of active phase and second stage of labor; type of delivery; perineal trauma; the severity of labor Pain; frequency use of oxytocin during labor; frequency use of routine episiotomy; mother's satisfaction from her position and newborn apgar score.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017082111360N3**

Registration date: **2017-11-13, 1396/08/22**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-11-13, 1396/08/22

Registrant information

Name

Mina Iravani

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2017-05-02, 1396/02/12

Expected recruitment end date

2017-08-21, 1396/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The efficacy of maternal position in labor to correct occipito-posterior fetal position and delivery outcome

Public title

The efficacy of maternal position in labor to correct occipito-posterior fetal position and delivery outcome

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: women were active labor; age between 18-40 years; BMI between 18 and 30 Kg/m²; assessment of occiput fetal position at the labour onset and confirmed by ultrasound; singleton pregnancy; cephalic fetal presentation and gestational age more

than 37 week. Exclusion criteria: labour induction; complications of pregnancy; any contraindication for use of knee-chest and semi prone position.

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: **180**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ahvaz Jundishapur University of Medical Sciences

Street address

Golestan, Farvardin street, Khuuzestan,Ahvaz
61357-33118

City

Ahvaz

Postal code

15794-61357

Approval date

2017-04-29, 1396/02/09

Ethics committee reference number

IR.AJUMS.REC.1396.85

Health conditions studied

1

Description of health condition studied

Normal Delivery Managment

ICD-10 code

0.80

ICD-10 code description

Normal Delivery

Primary outcomes

1

Description

Duration of active phase and second stage of labor

Timepoint

Cervix dilatation from 4 centimeter to 10 centimeter for active phase of labor and cervix dilatation from 10 centimeter to delivery of newborn for second stage of labor

Method of measurement

Clinical examination/ Measurement by digital chronometer / record in check list

2

Description

Labor Pain intensity

Timepoint

Measurement severity of pain for dillatation of 4; 6; 8 and 10 centimeter and secod stage

Method of measurement

By visual analog scale and mc gill questionnaire/ record in check list

3

Description

Type of delivery

Timepoint

After of delivery

Method of measurement

Observation and record in check list

4

Description

Apgar score

Timepoint

At 1 and 5 minutes after birth

Method of measurement

Observation and examination

5

Description

Frequency use of oxytocin during normal labor

Timepoint

During first and second stage of normal labor

Method of measurement

Observation / record in check list

6

Description

Mother satisfaction from delivery

Timepoint

after delivery

Method of measurement

Macky satisfaction questionnaire

7

Description

Frequency use of episiotomy

Timepoint

After of delivery

Method of measurement

Observation and record in check list

8

Description

Frequency of third and fourth-degree perineal lacerations

Timepoint

After of delivery

Method of measurement

Observation and record in check list

9

Description

Fetal head position at birth

Timepoint

At delivery

Method of measurement

Observation and record in check list

Secondary outcomes

empty

Intervention groups

1

Description

Intervention Group 1: Semi prone position

Category

Other

2

Description

control group: current position (supine position)

Category

Other

3

Description

Intervention group 2: Knee-chest position

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Mother hospital ramhormoz

Full name of responsible person

Kobra bahmaei

Street address

Mother hospital ramhormoz khouzeestan Iran

City

ramhormoz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research, Jundishapur University of Medical Sciences

Full name of responsible person

Dr Behzad Sharif MakhmalZade

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School of Nursing and Midwifery, Jundishapur University of Medical Sciences, Ahvaz University City, Khouzeestan Ahvaz

City

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Grant name

RHPRC-9601

Grant code / Reference number

RHPRC-9601

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

Yes

Title of funding source

Vice-chancellor for Research, Jundishapur 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

Ahvaz Jundishapuur University of Medical Sciences

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Position

ms midwifery student

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