

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Comparison of the effects of maternal supportive care and acupressure (point BL32) in labor on fetal heart rate pattern and nucleated red blood cells in the umbilical cord blood of pregnant women admitted to shooshtari hospital in Shiraz 2012

Protocol summary

Summary

This study is a randomized clinical trial was performed on 150 pregnant women admitted to hospital conducted and compared the impact of supportive care for mother and acupressure (the 32BL) in labor Fetal heart rate pattern and the number of red blood cell nucleated cord blood Babies. After obtaining informed consent, eligible women randomly assigned to three groups are the (two intervention groups and a control group.) In three groups of tests for assessing anxiety Spielberger (STAI) is used. fetal heart rate during labor check with Sony kit, after taking blood from the umbilical cord and send, the results to be recorded.

General information

Acronym

point BL32: bladder 32

IRCT registration information

IRCT registration number: **IRCT2012120911706N1**

Registration date: **2013-02-10, 1391/11/22**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-02-10, 1391/11/22

Registrant information

Name

Zahra Masoudi

Name of organization / entity

Shiraz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Research of Shiraz University of Medical Sciences

Expected recruitment start date

2012-12-05, 1391/09/15

Expected recruitment end date

2013-02-03, 1391/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of maternal supportive care and acupressure (point BL32) in labor on fetal heart rate pattern and nucleated red blood cells in the umbilical cord blood of pregnant women admitted to shooshtari hospital in Shiraz 2012

Public title

Comparison of the effects of maternal supportive care and acupressure in labor on fetal heart rate pattern and nucleated red blood cells in the umbilical cord blood

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 41-37 weeks gestational age based on last menstrual period or ultrasound last quarter of the first and second; maternal age 18-35 years old; single pregnancy; cephalic presentation and the lack of obvious

chromosomal abnormalities and fetal congenital absence of specific drugs during pregnancy; at least a third of literacy; an Iranian citizen; willing to participate in the study and signed a written consent. Exclusion criteria: preterm; maternal diabetes; fetal growth restriction; incompatibility RH; history the smoking of tobacco by maternal, hypertension, preeclampsia, oligohydramnios, placenta previa, placental abruption, thick meconium; either physically or mentally ill mother, received any medication such as pethidine, hyoscine, and atropine oxytocin.

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **150**

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**

Ethics in Medical Research, Shiraz University of Medical Sciences

Street address

Shiraz - Zand Street - Next to the Red Crescent - Sakhtmtn Central University - Class 7 - Research

City

shiraz

Postal code

71345-1978

Approval date

2012-12-05, 1391/09/15

Ethics committee reference number

CT-91-6356

Health conditions studied**1****Description of health condition studied**

fetal heart rate

ICD-10 code

O36.3

ICD-10 code description

Maternal care for signs of fetal hypoxia

2**Description of health condition studied**

nucleated red blood cells in the umbilical cord blood

ICD-10 code

R71

ICD-10 code description

Abnormality of red blood cells

Primary outcomes**1****Description**

Anxiety

Timepoint

before and after intervention

Method of measurement

Spielberger questionnaire

2**Description**

The number of nucleated red blood cells in cord blood

Timepoint

After supplying blood from the umbilical cord and peripheral blood smear under the microscope

Method of measurement

Blood Tests

3**Description**

fetal heart rate

Timepoint

during laboar

Method of measurement

by sonykid

Secondary outcomes

empty

Intervention groups**1****Description**

The first intervention, group: Researcher as doula from the beginning to the side of mother, encourages her, Mother are in appropriate positions in the different stages of labor. Positions chosen so that the conditions for the mother to prevent boredom and monotony.

Category

Treatment - Other

2

Description

The second intervention: Acupressure group, The 3-4 and 7-8 cm dilation of mother in the proper position 32BL uniform pressure for 20 minutes during contraction (Starting with the pressure of the contractions start and end point shrinkage of pressure on this point is removed) by both thumbs gently, consistently and fairly "deep is pressed.

Category

Treatment - Other

3

Description

control group: After admission to the hospital, receiving only routine care.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shoushtari hospital

Full name of responsible person

Andisheh Jorkesh

Street address

Corner intersection Hong - Hospital Shoushtari

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research department of Shiraz University of Medical Sciences

Full name of responsible person

Dr. Gholamreza Hatam

Street address

7th floor, research department, central bulding of Shiraz university medical of sciences, Zand street, shiraz,fars,iran

City

Shiraz

Grant name

Grant code / Reference number

6356

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

Yes

Title of funding source

Research department of Shiraz 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences. Shiraz
Iran.Department of Hematology-Oncology and stem
cell t

Full name of responsible person

Dr. Mani Ramzi

Position

Specialty Hematology & Oncology, Associate

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

Zahra Masoudi

Position

Master student of Midwifery

Other areas of specialty/work

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Web page address

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