Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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

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7th floor, research department, centeral 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
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Position
Specialty Hematology & Oncology, Associate

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Person responsible for updating data

Contact

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
Zahra Masoudi

Position
Master student of Midwifery

Other areas of specialty/work

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Fatemeh(P.B.U.H) School of Nursing & Midwifery, Namazi Square, Shiraz

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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