

# 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

###### Country

Iran (Islamic Republic of)

##### Phone

+98 71 1235 7282

##### Email address

masoudi\_z@sums.ac.ir

##### 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

#### Street address

School of Medicine, Zand Avenue, shiraz

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Ramzim@sums.ac.ir

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## Person responsible for updating data

### Contact

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Shiraz University of Medical Sciences

#### Full name of responsible person

Zahra Masoudi

#### Position

Master student of Midwifery

#### Other areas of specialty/work

#### Street address

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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*