

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jun 2026

The effect of acupressure(UB32) on pain severity of intramuscular magnesium sulfate injection(Z technique)in postpartum cesarean section women with severe Precambrian and eclampsia

Protocol summary

Summary

The purpose of this study is to determine the effect of acupressure on pain reduction of intramuscular magnesium sulfate injection with Z technique in postpartum cesarean section women. This study will be conducted in Hafez, Zeinabie and Shooshtari hospitals affiliated to Shiraz University of Medical Sciences. 47 eligible post partum cesarian section women affected with severe preeclampsia and eclampsia will enter the study after obtaining a written informed consent. Magnesium sulfate injections are repeated every 4 hours until 24 hours after delivery. In each injection 5cc of drug will be injected in one buttock and the remaining 5cc will be injected in the other buttock. In this study researcher herself do all the injections. The first injection is without acupressure. The second injection is with acupressure in sham control point which is similar in all patients. The third one is with pressure on UB32 point. Acupressure point is pressed by thumb directly and continuously with pressure equal to 4.5kg/cm² for one minute followed by three times sequentially. In second injection the same pressure and method is used in the sham control point. After each injection patients pain will be measured and documented by co-researcher and according to VAS scale. In order to avoid bias neither patients nor co-researcher know which injection is in real point and which is in sham control point. Finally the severity of pain will be compared in three injection.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201410278505N12**
Registration date: **2017-01-18, 1395/10/29**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-01-18, 1395/10/29

Registrant information

Name

Seyed Saeed Najafi

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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najafisa@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Shiraz University of Medical Sciences

Expected recruitment start date

2016-12-20, 1395/09/30

Expected recruitment end date

2017-02-18, 1395/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of acupressure(UB32) on pain severity of intramuscular magnesium sulfate injection(Z technique)in postpartum cesarean section women with severe Precambrian and eclampsia

Public title

The effect of acupuncture on intramuscular injection pain severity

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Range of age between 15-45; Willingness to participate; Gynecologist order for magnesium sulfate injection; No chronic pain in lumbosacral area including disk herniation
Exclusion criteria: Unwillingness to participate; Any psychological disease including depression; Allergy to magnesium sulfate; Receiving pain killers before injection (Except diclofenac suppository); Femur and hip fracture in the last year

Age

From **15 years** old to **45 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **47**

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features

In current study the first intervention is simple, the second is acupuncture in sham control point and the third one is acupuncture in UB32 point. Patients are not aware of which pressure is in real and which is in unreal point. Co-researcher also does not aware of patients injection group.

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Medical Research Ethics Committee of Shiraz University of Medical sciences

Street address

Central building of Shiraz University of Medical Sciences, Zand street

City

Shiraz

Postal code

713451978

Approval date

2016-10-09, 1395/07/18

Ethics committee reference number

IR.SUMS.REC.1395.122

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

eclampsia and severe preeclampsia

ICD-10 code

XV,010-016

ICD-10 code description

oedema, proteinuria and hypertensive disorder in pregnancy

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

Pain

Timepoint

immediately after injection

Method of measurement

Visual analogue scale

Secondary outcomes

empty

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

The first intervention is intramuscular magnesium sulfate injection with Z technique as a conventional method. 5cc of drug will be injected in one buttock and the remaining 5cc will be injected to the other buttock. Then patients will be asked about their pain by co-researcher and according to VAS scale.

Category

N/A

2**Description**

The second intervention is intramuscular magnesium sulfate injection with Z technique with acupuncture in sham control point which is same in all patients and located in 5cm of posterior superior iliac spine. Acupuncture point is pressed by thumb directly and continuously with pressure equal to 4.5kg/cm² for one minute followed by three times sequentially. Then 5cc of drug will be injected in that buttock. Then patients will be asked to lie in the other side and acupuncture will be done with same pressure and technique in the other side. Then remaining 5cc will be injected in other buttock immediately. Then patients will be asked about their pain by co-researcher and according to VAS scale.

Category

Treatment - Drugs

3**Description**

The third intervention is intramuscular magnesium sulfate injection with Z technique with acupressure in UB32 point. Acupressure point is pressed by thumb directly and continuously with pressure equal to 4.5kg/cm² for one minute followed by three times sequentially. Then 5cc of drug will be injected in that buttock immediately. Then patients will be asked to lie in the other side and acupressure will be done with same technique and pressure and the remaining 5cc will be injected to the other buttock. Then patients will be asked about their pain by co-researcher and according to VAS scale

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Hafez, Zeinabie & shoostary hospitals affiliated to Shiraz University of Medical Science

Full name of responsible person

Setare Nazaribin

Street address

Fatemeh(PBUH) School of Nursing and Midwifery, Shiraz University of Medical Sciences

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice Chancellor for research of Shiraz University of Medical Sciences

Full name of responsible person

Sayed Basir Hashemi

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Central Building of Shiraz University of Medical Sciences, Zand street

City

Shiraz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice Chancellor for research 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****Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

Setare Nazaribin

Position

MSc in Nursing

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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