

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jul 2026

### The Effect of Acupoint Massage on Pain of Patients Undergoing Venipuncture procedures

#### Protocol summary

##### Summary

The purpose of this study was to examine the effects of acupressure on pain and vital signs of patients undergoing the venipuncture procedures. This was a double blind quasi-experimental controlled trial study in which 180 patients referred to Shohadaye Ashayer hospital and didn't have any sight disorder, addiction, history of diabetes mellitus, acute or chronic pain randomly selected. Balanced randomization method was used to allocate participants in to acupressure group (n=60) receiving acupressure at the correct points , placebo group (n=60) receiving acupressure at sham points and control group with routine care. Venipuncture procedure in all groups were performed on both hands of the patients. The first time the procedure performed without any modality in one hand and the second time performed with intervention on the other hand. Pain (using VAS) and vital signs (pulse rate, diastole and systole blood pressure, O2 saturation) were measured before, during and immediately after the intervention . Subjects in acupressure group received acupressure in LI4, H7 and Extra1 points and duration of massage was 9 minute (3 minute per acupoint) . Placebo acupoint group experienced massage in pseudo points with about 1-1.5 cm distance near to the true points with the same technique and duration. Venipuncture procedure were performed on both hands of the subjects of the control group without any intervention .The mean scores of pain of each group were compared before and after the intervention. Also the mean scores of pain of three groups were compared before and after the intervention.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201203159302N1**

Registration date: **2012-09-22, 1391/07/01**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2012-09-22, 1391/07/01

##### Registrant information

###### Name

Reza Hosseinabadi

###### Name of organization / entity

Lorestan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 66 1620 0140

###### Email address

reza.hosseinabadi@lums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Lorestan University of Medical Sciences

##### Expected recruitment start date

2012-06-09, 1391/03/20

##### Expected recruitment end date

2012-11-10, 1391/08/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The Effect of Acupoint Massage on Pain of Patients Undergoing Venipuncture procedures

##### Public title

Effect of Acupressure on Pain

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Age of 16-45; Both male and female; Patient with medical problems; To have minimum of two ordered blood Laboratorytests in a day Exclusion criteria : Neuralgic disease; Mellitus debate; Addiction; Consumption Anti pain drug during last day; pregnancy; To have open wounds in hands or face; inappropriate vein;

**Age**

From **16 years** old to **45 years** old

**Gender**

Both

**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)**

Double blinded

**Blinding description****Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

Ethic committee of Lorestan University of Medical Sciences

**Street address**

Lorestan University of Medical Sciences, kamalvand, khorramabad, Iran

**City**

Khorramabad

**Postal code**

Iran

**Approval date**

2011-12-20, 1390/09/29

**Ethics committee reference number**

200/58951

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

pain

**ICD-10 code**

R 52.0

**ICD-10 code description**

Acute Pain

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

Pain

**Timepoint**

Before, during and immediately after the intervention

**Method of measurement**

Visual Analog Scale(VAS)

**Secondary outcomes****1****Description**

Pulse

**Timepoint**

Before, during and after the intervention

**Method of measurement**

Pulse oximetry devices

**2****Description**

Arterial oxygen saturation

**Timepoint**

Before, during and after the intervention

**Method of measurement**

Ppulse oximetry devices

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

The first venipuncture procedure were performed without intervention on the one hand, then anti pain acupoint fingertips massage was performed with a minimum weight of 3 kg and duration of 9 minute(3 minute per acupoint) before and during the venipuncture procedure on the other hand of subjects of the intervention group .

**Category**

Other

**2****Description**

Participants in placebo group were received venipuncture procedure without intervention on the one hand then, pseudo points finger tips massage with about 1-1.5 cm distance near to the true points with a minimum weight of 3 kg and duration of 9 minute(3 minute per acupoint) were performed before and during the venipuncture procedure on the other hand.

**Category**

Treatment - Drugs

### 3

#### Description

Routine venipuncture procedure without fingertips massage were performed on both hands of subjects of the control group.

#### Category

Treatment - Drugs

### Recruitment centers

#### 1

##### Recruitment center

###### Name of recruitment center

Shohadaye Ashayer Hospital, Khorramabad, Iran

###### Full name of responsible person

Reza Hosseinabadi

###### Street address

Lorestan University of Medical Sciences, School of Nursing & Midwifery

###### City

Khorramabad

### Sponsors / Funding sources

#### 1

##### Sponsor

###### Name of organization / entity

Lorestan University of Medical Sciences

###### Full name of responsible person

Dr Mohammad Kayedi

###### Street address

Lorestan University of Medical Sciences, Kamalvand, Khorramabad , Iran

###### City

Khorramabad

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Lorestan 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

Lorestan University of Medical Sciences,

Khorramabad School of Nursing & Midwifery

##### Full name of responsible person

Reza Hosseinabadi

##### Position

MSc in nursing

##### Other areas of specialty/work

##### Street address

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### Person responsible for scientific inquiries

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### Person responsible for updating data

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**Web page address**

*empty*

## **Sharing plan**

**Informed Consent Form**

*empty*

**Deidentified Individual Participant Data Set (IPD)**

**Clinical Study Report**

*empty*

*empty*

**Study Protocol**

**Analytic Code**

*empty*

*empty*

**Statistical Analysis Plan**

**Data Dictionary**

*empty*