

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jul 2026

### A clinical trial to compare the effect of acupressure on UB32 and LI4 acupoints on pain of intramuscular injection in women

#### Protocol summary

##### Summary

(1) Objectives: to compare the pain severity after applying acupressure on UB32 or LI4 acupoints and the routine intramuscular injections, (2) Design: A three group, non blind clinical trial will be conducted on 90 patients that equally assigned in the three study groups (30 ones in each group). The subjects will be assigned in the study groups through randomized block method. (3) Setting and conduct: The study setting is the nursing department of Kashan's central emergency department which is the main outpatient department in the center of Kashan city, (4) Participants: The women who refer for intramuscular injections of penicillin. The main inclusion criteria are: age between 18-60 years old, having a muscular injection of Penicillin, and lack of any lesion in the injection site and in pressure points. (5) Intervention: Applying acupressure in UB32 or LI4 acupoints, before injection (6) Main outcome measures: The severity of perceived pain.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138901223618N2**  
Registration date: **2015-12-30, 1394/10/09**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2015-12-30, 1394/10/09

##### Registrant information

##### Name

Mohsen Adib-Hajbaghery

##### Name of organization / entity

Kashan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 36155540021

##### Email address

adibhajbagheri\_m@kaums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Kashan University of Medical Sciences

##### Expected recruitment start date

2015-10-07, 1394/07/15

##### Expected recruitment end date

2016-02-19, 1394/11/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

A clinical trial to compare the effect of acupressure on UB32 and LI4 acupoints on pain of intramuscular injection in women

##### Public title

Effect of acupressure on pain of intramuscular injection

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion criteria: 1) Age between 18-60 years old; 2) Having a muscular injection of Penicillin; 3) Lack of any lesion (i.e. wound, edema, fracture) in the places of injection and acupressure; 4) Having no trauma or accident; 5) Having no known mental disorder and acute cardiac problem; 6) Being fully conscious; 7) Signing an informed consent to participate in the study. Exclusion criteria: 1) a patient decision to withdraw from the study.

## Age

From **18 years** old to **60 years** old

## Gender

Female

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **90**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Not blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

Blocked randomization

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee Kashan University of Medical Sciences

##### Street address

Research deputy, Kashan University of Medical Sciences, 3rd Km of Ravand road, Kashan, Iran

##### City

Kashan

##### Postal code

8715988141

#### Approval date

2015-09-23, 1394/07/01

#### Ethics committee reference number

IR.KAUMS.REC.1394.75

## Health conditions studied

### 1

#### Description of health condition studied

Pain of intramuscular injection

#### ICD-10 code

R00-R09

#### ICD-10 code description

Symptoms and signs involving the circulatory and respiratory systems

## Primary outcomes

### 1

#### Description

Pain intensity

#### Timepoint

Immediately after injection

#### Method of measurement

A Visual analog scale

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group 1: Acupressure on LI4

#### Category

Treatment - Other

### 2

#### Description

Intervention group 2: Acupressure on UB32

#### Category

Treatment - Other

### 3

#### Description

Control group: No acupressure will be done

#### Category

Treatment - Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Kashan's Central Emergency Department

##### Full name of responsible person

Mr. Faiazi

##### Street address

Kashan's Central Emergency Department, Baba Afzal avenue, Kashan

##### City

Kashan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Kashan University of Medical Sciences

##### Full name of responsible person

Dr. Gholamali Hamidi

**Street address**

Research deputy, Kashan University of Medical Sciences, 3rd Km of Ravand road, Kashan, Iran

**City**

Kashan

**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, Kashan 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**

Kashan University of Medical Sciences

**Full name of responsible person**

Dr. Mohsen Adib-Hajbaghery

**Position**

Faculty member

**Other areas of specialty/work**

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Raddadi

**Full name of responsible person**

Yasaman

**Position**

Kashan University of Medical Sciences

**Other areas of specialty/work**

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Nursing student

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00

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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*