Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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 trough 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

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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
Immediatly 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 avenu, 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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Person responsible for scientific inquiries

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Person responsible for updating data

Contact

Name of organization / entity

Raddadi

Full name of responsible person

Yasaman

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Nursing student

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00

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Email

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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