

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

comparison acupressure effect between neiguan point and placebo on pain and anxiety in inguinal hernia surgery

Protocol summary

Summary

This study is performed to investigate the effect of acupressure at neiguan point on anxiety and pain in patients undergoing inguinal hernia surgery. This clinical trial, included two groups and was single blinded. In This study, 88 patients who underwent inguinal hernia and their age ranged from 13 to 75 years, were examined. The patients were under general anesthesia with endotracheal tube and without any mental illness and addiction. The subjects were randomly assigned to two groups of intervention (n = 44) and placebo (n = 44). In the intervention group, acupressure was applied using wristbands buttons tension in the neiguan point, and in the placebo group wristbands without buttons tension was placed loosely in false point. measurements were made in two steps (before and after surgery). Wristbands were placed once for 5 minutes before surgery, and anxiety were measured before and after intervention using the Spielberger questionnaire. After surgery, when the patient become alert, acupressure wristbands were placed every two hours for 5 minutes to 6 hours, and pain level was measured based on the assessment protocol of vital sign.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015062322888N1**

Registration date: **2015-08-23, 1394/06/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-08-23, 1394/06/01

Registrant information

Name

Fatemeh Zeynali

Name of organization / entity

Sabzevar University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Sabzevar University of Medical Sciences

Expected recruitment start date

2015-02-04, 1393/11/15

Expected recruitment end date

2015-05-05, 1394/02/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison acupressure effect between neiguan point and placebo on pain and anxiety in inguinal hernia surgery

Public title

effect of acupressure on pain, and anxiety in inguinal hernia surgery

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: age range 13-75 years, general anesthesia with endotracheal intubation, The Neiguan region do not have any deformity and injuries, Didn't

have any history of mental disorder ,addiction and history of previous abdominal surgery ,Ability to speak and understand the Persian language. Exclusion criteria included: Discontent for the use of wristbands at any time of the study, Do not use opioid drugs and sedative for 4 hours before the intervention, Long operation time and the incidence of adverse events recorded in the patient during surgery.

Age

From **13 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **88**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features

A pilot study was done on 54 patients the same quality of the original study and the sample size was determined 88. Permutation block method was used to divide patients to intervention and placebo groups. Patients in this study were blind and unaware of the type of groups that were in it. This study was conducted with self-made wristbands.

Secondary Ids

empty

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

Ethics committee of Sabzevar University of Medical Sciences.

Street address

Building number one, next to the police station to SHahroud road, The School of Nursing and Midwifery, University of Medical Sciences and Health Services, sabzevar

City

Sabzevar

Postal code**Approval date**

2015-02-04, 1393/11/15

Ethics committee reference number

medsab.Rec.93.65

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

Inguinal Hernia

ICD-10 code

K40.9

ICD-10 code description

Unilateral or unspecified inguinal hernia, without obstruction or gangrene

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

pain

Timepoint

before the surgery and after the surgery to 6 hours

Method of measurement

Visual Analogue Scale

2**Description**

Anxiety

Timepoint

before the surgery

Method of measurement

Spielberger questionnaire

Secondary outcomes

empty

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

The intervention group received acupressure on neiguan point with an wristbands with a button applies pressure for 5 minutes.

Category

Treatment - Other

2**Description**

placebo group received light pressure with an wristbands without a button applies pressure in false points for 5 minutes.

Category

Treatment - Other

Recruitment centers**1****Recruitment center**

Name of recruitment center

sabzevar Emdad Hospital
Full name of responsible person
fatemeh zeynali
Street address
City
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2

Recruitment center
Name of recruitment center
sabzevar Vasei Hospital
Full name of responsible person
fatemeh zeynali
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research of Sabzevar University of Medical Sciences
Full name of responsible person
Moosa Reza Tadayonfar
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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 Sabzevar 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

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Person responsible for updating data

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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