

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

25 Jun 2026

### Effect of Reflexology Massage on Post operative Appendectomy pain

#### Protocol summary

##### Summary

This critical trial study has performed in the emergency department of the Emam Reza Hospital, in Mashhad in 2013. The inclusion criteria were age between 15 to 60 years old; the diagnosis of appendicitis; appendectomy by a single surgeon and full consciousness and some other conditions, and the exclusion criteria were use of sedative before the intervention, discharged earlier than 24 hours and some other conditions. In intervention group a specific area in the right leg and Shenman part of the ear was pressed for ten and one minute respectively. In the control group the pressure was applied on the back of left foot and right earlobe. Patients in the control group received only routine care. Pain level and analgesic intake of 105 patients were compared in three groups before, immediately, one, six and 24 hours after treatment. The results were evaluated at 95% confidence level. Data analysis was performed with SPSS 21 software

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013122615946N1**

Registration date: **2014-05-28, 1393/03/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-05-28, 1393/03/07

##### Registrant information

###### Name

Sara Baghani

###### Name of organization / entity

Mashhad University of Medical Sciences

###### Country

Iran (Islamic Republic of)

##### Phone

+98 51 1609 1195

##### Email address

baghanis2@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Sabzevar University of Medical Sciences

##### Expected recruitment start date

2013-12-06, 1392/09/15

##### Expected recruitment end date

2014-03-06, 1392/12/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of Reflexology Massage on Post operative Appendectomy pain

##### Public title

Effect of Reflexology Massage on Post operative Appendectomy pain

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

inclusion criteria : age between 15 to 60, the diagnosis of appendicitis, appendectomy by a single surgeon and full consciousness. exclusion criteria: Previous surgery, addiction, emotional disorders, diabetes, mental disorders, age below 15 years and above 60 years of age, spinal anesthesia, the patient's unwillingness to participate in the study, history of reflexology massage, having chronic pain in other body regions, sensitivity to touch or massage, having fever and skin diseases, pregnancy, severe complications after the surgery, a member of the feet and hands health disorders, hearing disorders and get home before the intervention

**Age**

From **15 years** old to **60 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **105**

**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**

Sabzevar University of Medical Sciences

**Street address**

School of Nursing and Midwifery; next to the Police station to SHahroud road, Sabzevar

**City**

Sabzavar

**Postal code****Approval date**

2010-08-20, 1389/05/29

**Ethics committee reference number**

medsab.Rec.92.4

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

Appendectomy

**ICD-10 code**

K35.3

**ICD-10 code description**

Acute appendicitis with localized peritonitis

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

Pain

**Timepoint**

before intervention, 0, 1, 6 and 24 hours after intervention

**Method of measurement**

0-10 visual analog scale

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

Sedative consumption

**Timepoint**

before intervention, 0, 1, 6 and 24 hours after intervention

**Method of measurement**

Review patient file

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

In intervention group pain intensity was recorded, then the patient's right leg in a certain area was pressed by the therapist who has been trained by a specialist for ten minutes by a special mean (steak). Also a ear seed put on certain points on the ear (shenmen) and was pressed for a minute.

**Category**

Treatment - Other

**2****Description**

The control group received only routine care.

**Category**

N/A

**3****Description**

Patients in the placebo group had a pressure point on the back of the left leg that was pressed with less intensity. ear seed was attached to the left earlobe of a patient without compression balls and other methods were performed for this group in the same way.

**Category**

Placebo

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

Emam Reza hospital

**Full name of responsible person****Street address**

Imam Square - Ibn Sina Street - Mashhad

**City**

Mashhad

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Sabzevar University of Medical Sciences

**Full name of responsible person**

Mosa Alreza Tadayon far

**Street address**

Sabzevar University of Medical Sciences

**City**

Sabzevar

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

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

### Contact

**Name of organization / entity**

Sabzevar University of Medical Sciences

**Full name of responsible person**

Sara Baghani

**Position**

MSc

**Other areas of specialty/work**

**Street address**

Complementary Medicine Research Centre -Imam

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## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Dr Ali Khoorsand Vakilizadeh

**Position**

Assistant professor/ clinical PhD of chinese medicine and acupuncture

**Other areas of specialty/work**

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## Person responsible for updating data

### Contact

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Complementary Medicine Research Centre

**Full name of responsible person**

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**Position**

Master of Science

**Other areas of specialty/work**

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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*