Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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)

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Recruitment status

Recruitment complete

Funding source

Sabzevar University of Medical Siences

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 Siences
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 itervention
Method of measurement
0-10 visual analog scale

Secondary outcomes

1

Description
Sedative consumptin
Timepoint
before intervention, 0, 1, 6 and 24 hours after itervention
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 Siences
Full name of responsible person
Mosa Alreza Tadayon far
Street address
Sabzevar University of Medical Siences
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 Siences
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
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Person responsible for scientific inquiries

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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