Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparing the effect of conventional transcutaneous electrical nerve stimulation with Acupuncture like transcutaneous electrical nerve stimulation on postoperative pain relief

Protocol summary

Summary

The purpose of this study is to compare the effect of conventional transcutaneous electrical nerve stimulation with Acupuncture like transcutaneous electrical nerve stimulation on postoperative pain relief. The study population is men & women 18-60 years old undergoing appendectomy & inguinal herniorrhaphy in Ali-ibn-Abi-Talib hospital, Rafsanjan, Iran. Target sample size is 90. Exclusion criteria are: history of cardiac disease, psychiatric, epilepsy, addiction & pregnancy. Patients are divided into three groups: 1.conventional TENS 2.Acupuncture like TENS 3.placebo TENS. Then, patients' pain is compared among three groups before, immediately after and one hour after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138706101061N2**
Registration date: **2011-10-31, 1390/08/09**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2011-10-31, 1390/08/09

Registrant information

Name
Reza Vazirinejad
Name of organization / entity
Rafsanjan University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Rafsanjan university medical of sciences

Expected recruitment start date

2011-10-22, 1390/07/30

Expected recruitment end date

2012-03-20, 1391/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of conventional transcutaneous electrical nerve stimulation with Acupuncture like transcutaneous electrical nerve stimulation on postoperative pain relief

Public title

Transcutaneous electrical nerve stimulation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Men & women 18-60 years old, under Appendectomy & Inguinal Herniorrhaphy. Exclusion criteria: without history of cardiac disease, psychiatric, epilepsy, addiction & pregnancy.

Age

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

Gender

Both

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)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Rafsanjan University of Medical Sciences

Street address

Rafsanjan University of Medical Sciences, Imam Ali blvd.

City

Rafsanjan

Postal code

7717933777

Approval date

2011-05-17, 1390/02/27

Ethics committee reference number

9/20/596

Health conditions studied

1

Description of health condition studied

Post operative pain

ICD-10 code

K35

ICD-10 code description

Acute appendicitis

2

Description of health condition studied

Post operative pain

ICD-10 code

K40

ICD-10 code description

Inguinal hernia

Primary outcomes

1

Description

Pain

Timepoint

Before, immediately after and one hour after intervention

Method of measurement

Numerical rating scale

Secondary outcomes

empty

Intervention groups

1

Description

Conventional TENS

Category

Treatment - Other

2

Description

Acupuncture TENS

Category

Treatment - Other

3

Description

placebo TENS

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali-Ebn-Abi-aleb Hospital

Full name of responsible person

Fariba Mazhari

Street address

Ayatollah Saeedi Square

City

Rafsanjan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Rafsanjan University of Medical Sciences

Full name of responsible person

Reza Vazirinejad

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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

Rafsanjan 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Rafsanjan University of Medical Sciences

Full name of responsible person

Fariba Mazhari

Position

MS Nursing

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