

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

The effect of acupressure on headache intensity of patients with acute migraine referred to emergency departments

Protocol summary

Study aim

Determining the effect of acupressure on the severity of acute migraine headache in patients referred to the emergency department

Design

Clinical trials with control group, with false intervention group, are randomized. 69 samples were randomly assigned in 3 groups and based on the software in 11 blocks and 6 blocks and 3 blocks in each group, 2 in group A (acupressure group), 2 in group B (sham group) and 2 in group Group C (control group). And in the triple block, there is one person from each group

Settings and conduct

For each compression point for 8 seconds, followed by 2 seconds of rest and repetition of this sequence for 3 minutes. After 24 minutes of massage, the pain will be recorded. The study area is located in Bouali Sari Hospital.

Participants/Inclusion and exclusion criteria

1- Previous diagnosis of migraine by a neurologist at least 6 months ago, 2- Being in the age range of 18-65 years, 3- Headache severity, according to the scale of VAS with a score of 4, are included in the study

Intervention groups

In the acupressure group, in addition to medication in the emergency department, to reduce the headache caused by migraine, 6 points of the body called ST.44 Neiting, Liv.3 Taiching, BL.2Cuanzhu, GB.14 Yanghabi GB.1Tong Zi Liao, SI .3 Houxi, Du 20 Baihui and LI.4Hegu will be pressed. For each compression point for 8 seconds, followed by 2 seconds of rest and repetition of this sequence for 3 minutes. For the control group, only the medication in the emergency department will be performed and for the sham group at 8 points, 2 cun above the group points The pressure intervention is applied. After 24 minutes of massage, the pain of the patients will be recorded

Main outcome variables

Acute migraine headache

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20110906007494N30**

Registration date: **2019-06-17, 1398/03/27**

Registration timing: **registered_while_recruiting**

Last update: **2019-06-17, 1398/03/27**

Update count: **0**

Registration date

2019-06-17, 1398/03/27

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-17, 1398/03/27

Expected recruitment end date

2019-09-18, 1398/06/27

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of acupressure on headache intensity of patients with acute migraine referred to emergency departments

Public title

The effect of acupressure on headache intensity of patients with acute migraine referred to emergency departments

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

معیارهای تشخیص انجمن بین المللی سر درد برای تشخیص سر درد میگرنی عبارتند از الف: سابقه حداقل 5 حمله، (ب) حملات سر درد به مدت 4 تا 72 ساعت (2 تا 4 ساعت در افراد زیر 15 سال)، (ج) حملات سر درد با دو علامت از قبیل یک طرفه، ضریان دار، شدت متوسط تا شدید (با ممانعت از فعالیت روزانه)، تشدید سر درد با بالا رفتن از پله یا فعالیت های مشابه، (د) وجود حداقل یکی از علائم از قبیل تهوع یا استفراغ یا هر دو و ترس از نور و صدا در زمان سر درد) International diagnostic criteria for diagnosis of migraine headaches include: A: history of at least 5 attacks; (b) headache attacks for 4 to 72 hours (2 to 4 hours in people under 15 years of age); (c) head attacks Pain with two signs, such as one-way, pulsating, moderate to severe severity (by inhibiting daily activity), exacerbation of headache by climbing the stairs or similar activities, (d) having at least one of the symptoms, such as nausea or vomiting Or both, and fear of light and sound at the time of headache)

Exclusion criteria:

International diagnostic criteria for diagnosis of migraine headaches include: A: history of at least 5 attacks; (b) headache attacks for 4 to 72 hours (2 to 4 hours in people under 15 years of age); (c) head attacks Pain with two signs, such as one-way, pulsating, moderate to severe severity (by inhibiting daily activity), exacerbation of headache by climbing the stairs or similar activities, (d) having at least one of the symptoms, such as nausea or vomiting Or both, and fear of light and sound at the time of headache)

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **69**

Randomization (investigator's opinion)

Randomized

Randomization description

23 in the acupressure group, 23 in the control group and 23 in the sham group or false intervention for research. 69 samples were randomly assigned in 3 groups and based on the software in 11 blocks and 6 blocks and 3 blocks in each group, 2 in group A (acupressure group), 2 in group B (sham group) and 2 in group Group C (control group). And in the triple block, there is one person from each group

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Ethics Committee of Mazandaran University of Medical Sciences

Street address

Mazandaran University of Medical Sciences, Vice chancellor for research, Moalem street, Moalem square, Sari, Mazandaran, Iran.

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sari

Province

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Postal code

4816715793

Approval date

2019-06-16, 1398/03/26

Ethics committee reference number

IR.MAZUMS.REC.1398.528

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

The effect of acupressure on acute migraine pain

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Migraine headache

Timepoint

The effect of acupressure on the severity of migraine headache in patients referred to the emergency department

Method of measurement

(VAS) Visual Analogue Scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:

Category

Treatment - Drugs

2

Description

Control group:

Category

Treatment - Drugs

3

Description

Control group:

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Buali Sari Hospital

Full name of responsible person

PURIA SEAYDI

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

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Grant name

Grant code / Reference number

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

No

Title of funding source

Sari University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Dr. Masoumeh Bagheri Nasami

Position

Ph.D. Nursing Education

Latest degree

Ph.D.

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no further information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available