

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Jul 2026

Clinical trials The effectiveness of acupressure on pain and anxiety in cancer patients undergoing bone marrow aspiration and biopsy

Protocol summary

Summary

This study is a clinical trial that examines the acupressure effect on pain and anxiety in cancer patients undergoing bone marrow biopsy. The participants will be randomized into three groups of 30 patients (intervention, control and placebo). Inclusion criteria were: age 18 to 65 years, undergo bone marrow biopsy for the first time, the lack of previous experience in acupressure or acupuncture and exclusion criteria included having a platelet count less than 100,000 milligrams per deciliter. In the experimental group, the acupressure will be performed on the LI4 (anti-pain point) and the He7 (anti-anxiety point) for 1 minutes in during and after the biopsy. In the placebo group, the acupressure will be performed on the same points at a distance of 1.5 cm from the main points. No procedure will be performed in the control group. Before biopsy, all patients complete Spielberger anxiety questionnaire and the vital signs will be recorded. The pain will be measured using a visual analogue scale (VAS) in 3 groups, before, during and after the biopsy. Also will be re-measured amount of anxiety and vital signs after the biopsy

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2016080229159N1**

Registration date: **2017-04-27, 1396/02/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-04-27, 1396/02/07

Registrant information

Name

Moloud Sharifi

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 5525 8118

Email address

m.sharifi@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Babol University of Medical Sciences

Expected recruitment start date

2016-12-10, 1395/09/20

Expected recruitment end date

2017-03-07, 1395/12/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical trials The effectiveness of acupressure on pain and anxiety in cancer patients undergoing bone marrow aspiration and biopsy

Public title

The effect of acupressure on severity of pain and anxiety

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Having a pathology confirms the person with cancer; Having full consciousness; Age 18 to 65 years years; Avoiding the use of anxiolytic and analgesic

medications 12 hours before the procedure; No barrier in place Acupressure such as IV line, ulcer at the site of compression; Bone marrow biopsy is done for the first time; The lack of visual impairment to see a visual scale for pain intensity; Having reading and writing literacy needed for completing the questionnaire; having no experience or knowledge about acupressure. Exclusion criteria: the platelets level decreases to less than 100000 mg/dL, any problem or accident happens during the biopsy and unwillingness for cooperation to be continued.

Age

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

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

This study uses a sampling method, 90 patients were randomized into 3 groups of 30 blocks, a group of acupressure, placebo and one group studied the routine care

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Babol University of Medical Sciences

Street address

Babol University of Medical Sciences, Gangafrooz Street, Babol, Mazandaran

City

Babol

Postal code

4717647745

Approval date

2016-11-09, 1395/08/19

Ethics committee reference number

MUBABOL.HRI.REC.1395.39

Health conditions studied

1

Description of health condition studied

neoplasm

ICD-10 code

C00, C01,

ICD-10 code description

Malignant neoplasms

Primary outcomes

1

Description

pain

Timepoint

Before biopsy, during biopsy, immediately after the biopsy

Method of measurement

vas(Visual Analogue Scale)

2

Description

Anxiety

Timepoint

Before and after biopsy

Method of measurement

Spielberger questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

In the experimental group, acupressure will be applyin "Hugo" point or LI4 which is located in the hand, between the first and second metacarpal bones and the seventh heart or He7 which is located in the transverse fold of wrist which is directly in contact with flexor tendon, Carmen Ulnarys for 1 minute to will be done symmetrically on both hands.

Category

Other

2

Description

In the placebo group, the acupressure will be performed on the same points at a distance of 1.5 cm from the main points, for 1 minute to will be done symmetrically on both hands that these points will be ineffective and will have no effect on anxiety and pain .

Category

Other

3

Description

Control group, No procedure will be performed in the control group.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Sajad Hospital of Ramsar

Full name of responsible person

moloud sharifi

Street address

Motahhari Street, Revolution Square, Ramsar, Mazandaran

City

Ramsar

2

Recruitment center

Name of recruitment center

Personal office of Doctor Keyhanian

Full name of responsible person

moloud sharifi

Street address

Shiroodi Square, Tonkabon, Mazandaran

City

Tonkabon

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Babol University of Medical Sciences

Full name of responsible person

Ali Akbar Moghadamnia

Street address

Babol University of Medical Sciences, Gangafrooz Street, Babol, Mazandaran

City

Babol

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 Babol 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

Babol University of Medical Sciences

Full name of responsible person

Ali Akbar Moghadamnia

Position

PhD in Pharmacology and Toxicology/ Vice chancellor for research

Other areas of specialty/work

Street address

Babol University of Medical Sciences, Gangafrooz Street, Babol, Mazandaran

City

Babol

Postal code

4717647745

Phone

+98 11 3219 9592

Fax

+98 11 3219 0181

Email

Moghadamnia@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

moloud sharifi

Position

Master of Nursing

Other areas of specialty/work

Street address

Motahhari Street, Revolution Square, Ramsar

City

Ramsar

Postal code

4691714141

Phone

+98 11 5522 0488

Fax

+98 11 5522 6413

Email

m.sharifi@mubabol.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

moloud sharifi

Position

Master of Nursing / Faculty

Other areas of specialty/work**Street address**

Motahhari Street, Revolution Square, Ramsar

City

Ramsar

Postal code

4691714141

Phone

+98 11 5522 0488

Fax

+98 11 5522 6413

Email

m.sharifi@mubabol.ac.ir

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