

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparative study of the effect of acupressure and ice bag on the pain during removal of femoral artery sheath in angioplasty patients admitted to Angiography ward

Protocol summary

Study aim

Comparison of pain mean during removal of femoral sheath in acupressure and ice bag groups among angioplasty patients admitted angiography part

Design

This study is a clinical trial in which patients are randomly divided into three groups of 30 members. For first group acupressure and for the second group ice bags was used. For third group, the control group, patients' hand will be taken. arterial sheath in all three groups is removed in similar condition.

Settings and conduct

This study is a randomized clinical trial that will be carried out in the angiography ward of Ali ebne Abitaleb hospital in Rafsanjan.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Having Iranian nationality; Being conscious; Hemodynamically stable patients. non entry criteria: Patient who has emergency status and dangerous arrhythmia; Administration of sedative and analgesic; History of mental health problems; History of using acupressure; Previous angiography; Drug and alcohol addiction.

Intervention groups

In the acupressure group, the IL4 point will be pressed for 20 minutes before the sheath is removed by the trained nurse. For the ice bag group, 15 minutes before the arterial sheath is removed, the ice bag will be placed at the 0 to 2 degrees Celsius in the place of the femoral artery sheath in the inguinal area. In the control group, 20 minutes before the femoral artery sheath is removed, a nurse will be asked to take the patient's hand and then sheath will be removed. In this study, the pain intensity will be determined in two steps (before and immediately after the arterial sheath removal) using VAS scale.

Main outcome variables

pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20150519022320N15**

Registration date: **2018-11-02, 1397/08/11**

Registration timing: **registered_while_recruiting**

Last update: **2018-11-02, 1397/08/11**

Update count: **0**

Registration date

2018-11-02, 1397/08/11

Registrant information

Name

Tayebeh Mirzaei

Name of organization / entity

Rafsanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34 3425 5900

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-08-12, 1397/05/21

Expected recruitment end date

2018-11-12, 1397/08/21

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Comparative study of the effect of acupressure and ice bag on the pain during removal of femoral artery sheath in angioplasty patients admitted to Angiography ward

Public title
The effect of acupressure and ice bag on the pain during removal artery sheath

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Having Iranian nationality Being conscious
Hemodynamically stable patients
Exclusion criteria:
Patient who has emergency status and dangerous arrhythmia Receiving sedative and analgesics History of mental health problems History of using acupressure Previous angiography Drug and alcohol addiction History of mental and physical health problems, including vision, hearing, Parkinson's disease, multiple sclerosis Cold sensation and Raynaud's disease A particular problem at the site of acupressure (scars, burns, cysts, abscesses)

Age
No age limit

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
Randomization was Simple randomization using Random numbers table

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Rafsanjan University of Medical Sciences

Street address

School of Nursing and Midwifery, Parastar Avenue

City

Rafsanjan

Province

Kerman

Postal code

7718174715

Approval date

2018-06-23, 1397/04/02

Ethics committee reference number

IR.RUMS.REC.1397.066

Health conditions studied

1

Description of health condition studied

pain

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

pain relife

Timepoint

Before and immediately after removing artery sheath

Method of measurement

Visual Analog Scale (VAS)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In the acupressure group, the IL4 point, is pressed for 20 minutes before the sheath is removed by the trained nurse.

Category

Treatment - Other

2

Description

Intervention group: For the ice bag group, 15 minutes before the arterial sheath is removed, the ice bag at 0-2 degrees Celsius is placed at the femoral artery area (in the inguinal area).

Category

Treatment - Other

3

Description

Control group: In this group, The nurse is asked to take the patient's hand for 20 minutes before removing the

arterial sheath.
Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali-ibn Abitaleb Hospital, Department of Angiography,
Rafsanjan University of Medical Sciences

Full name of responsible person

Ali Ravary

Street address

Rafsanjan nursing faculty, Parastar street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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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?

Yes

Title of funding source

Rafsanjan 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

Rafsanjan University of Medical Sciences

Full name of responsible person

Dr ravary Ali

Position

PhD, assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available