Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Evaluation of the effect of foot reflexology massage on pain and anxiety in patients undergoing coronary artery bypass graft surgery.

Protocol summary

Summary

This study is a randomized controlled clinical trial which was performed to assess the impact of foot reflexology massage on pain and anxiety in pationts undergoing coronary artery bypass graft surgary. For this purpose, 52 eligible (Age 40 to 80 years, patients scheduled to undergo Coronary artery bypass graft surgery and oriented) and consenting patients were recruited and randomly allocated to intervention and control group on post surgical second day. In the Intervention group received 15 minutes left foot reflexology massage then 15 minutes right foot reflexology massage from the second day after surgery. In this group pain, anxiety, respiratory rate, heart rate and blood pressure Variables were measured befor and after intervention. In the control group, there was no intervention and pain, anxiety, respiratory rate, heart rate and Blood pressure Variables were measured twice interval of 30 minutes.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201212079422N5**
Registration date: **2012-12-09, 1391/09/19**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2012-12-09, 1391/09/19

Registrant information

Name

Aram Feizi

Name of organization / entity

Urmia University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 44 1336 5836

Email address

aramfeizi@umsu.ac.ir

Recruitment status

Recruitment complete

Funding source

Urimia Uuiversity of Medical Sciences

Expected recruitment start date

2012-07-22, 1391/05/01

Expected recruitment end date

2012-09-22, 1391/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of foot reflexology massage on pain and anxiety in patients undergoing coronary artery bypass graft surgery.

Public title

The effect of foot reflexology massage on pain and anxiety in patients undergoing coronary artery bypass graft surgery.

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Age40-80; consent to participate in the study; full consciousness; organically intact of legs; especially the feet. Exclusion criteria: Having Artery line in feet; Sedative; alcohol and drug addiction; History of diabetes for more than ten years; bradycardia and hypotension; Having bleeding disorder and thrombocytopenia

Age

From **40 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **52**

Randomization (investigator's opinion)

Randomized

Randomization description

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

Urimia University of Medical Sciences

Street address

Urimia University of Medical Sciences, Resalat Boulevard

City

Urimia

Postal code

Approval date

2012-09-05, 1391/06/15

Ethics committee reference number

39210/4/91/6پ

Health conditions studied

1

Description of health condition studied

coronary artery disease

ICD-10 code

I25.9

ICD-10 code description

Chronic ischaemic heart disease, unspecified

Primary outcomes

1

Description

Anxiety

Timepoint

The second day after the surgery immediately before and after intervention

Method of measurement

Spielberger State-trait anxiety inventory

2

Description

pain Intensity

Timepoint

The second day after the surgery immediately before and after intervention

Method of measurement

numeric rating scale (NRS)

Secondary outcomes

1

Description

Heart rate

Timepoint

The second day after the surgery immediately befor and after intervention

Method of measurement

Wrist watch

2

Description

Respiratory rate

Timepoint

The second day after the surgery immediately befor and after intervention

Method of measurement

Wrist watch

3

Description

Blood pressure

Timepoint

The second day after the surgery immediately befor and after intervention

Method of measurement

Mercury Sphygmomanometer

Intervention groups

1

Description

Intervention groups received 15 minutes left foot reflexology massage then 15 minutes right foot reflexology massage on the second post operative day.

Category

Other

2

Description

control groups received no intervention.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Syyed-o-al shohada Haspital
Full name of responsible person
Dr. Shayad Salehi Ardebili
Street address
Syyed-o-al shohada Haspital,17 Shahrivar Street, Urimia
City
Urimia

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Urmia University of Medical Sciences
Full name of responsible person
Dr. Morteza Motazaker
Street address
Urimia University of Medical Sciences, Resalat Boulevard
City
urimia
Grant name
ردیف پژوهشی معاونت تحقیقات و فن آوری
Grant code / Reference number
1136
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Urmia 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
Urmia University of Medical Sciences
Full name of responsible person
Dr. Aram Feizi
Position
PhD of Nursing
Other areas of specialty/work
Street address
Medical Education Development Center, Urimia University of Medical Sciences
City
Urmia
Postal code
Phone
+98 44 1222 0531
Fax
Email
aramfeizi@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Urmia University of Medical Sciences
Full name of responsible person
Dr. Aram Feizi
Position
PhD of Nursing
Other areas of specialty/work
Street address
Medical Education Development Center, Urmia University of Medical Sciences
City
Urmia
Postal code
Phone
+98 44 1222 0531
Fax
Email
aramfeizi@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Urmia University of Medical Sciences
Full name of responsible person
Fatemeh Rigi
Position
Msc Student of Nursing
Other areas of specialty/work
Street address
Nursing and Midwifery Faculty, University of Medical Sciences,
City
Urmia
Postal code
Phone
00
Fax
Email
f.rigi2011@gmail.com
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