

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 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 patients undergoing coronary artery bypass graft surgery. 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 before 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

Urmia University 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 before and
after intervention

Method of measurement

Wrist watch

2

Description

Respiratory rate

Timepoint

The second day after the surgery immediately before and
after intervention

Method of measurement

Wrist watch

3

Description

Blood pressure

Timepoint

The second day after the surgery immediately before 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**

Syed-o-al shohada Hospital

Full name of responsible person

Dr. Shayad Salehi Ardebili

Street addressSyed-o-al shohada Hospital, 17 Shahrivar Street,
Urmia**City**

Urmia

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Urmia University of Medical Sciences

Full name of responsible person

Dr. Morteza Motazaker

Street addressUrmia 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, 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 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