

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Effect of huko point Ice massage on Pain degree during arterio-venous fistula puncture in hemodialysis patients

Protocol summary

Summary

Ninety patients were randomly assigned to either the li4ice stimulation (n=30) and two control groups (n=30) who were undergoing hemodialysis by using AVF. We were randomly assigned to experimental and control groups using a randomization table. The experimental group received li4 ice massage at the 10 minute before arteriovenous fistula puncture: (Cold application was done with ice cubes wrapped in gloves on the web between the thumb and index finger of the hand not having the AV fistula (hoku) (contra lateral arm), the control group 1, received massage in wrist of contra lateral arm and the second control group received li4 massage. Pain degree during arterio-venous fistula puncture was measured with using a subjective pain scale (visual analogue scale) in first day without intervention. In the second day after 10 minute intervention in study groups, pain degree was measured again.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201106136786N1**
Registration date: **2011-06-21, 1390/03/31**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-06-21, 1390/03/31

Registrant information

Name

Fariba Nasiriziba

Name of organization / entity

Tehran Univercity of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2010-08-06, 1389/05/15

Expected recruitment end date

2010-10-07, 1389/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of huko point Ice massage on Pain degree during arterio-venous fistula puncture in hemodialysis patients

Public title

Effect of huko point Ice massage on Pain during arterio-venous fistula puncture in hemodialysis patients

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: age>18 year; oriented, capable oral and visual relation; no pain whole body before insert of needle into fistule Exclusion criteria: drug abuse before insert of needle into fistule; need to try for more of once; alzimer; demencia; disease of prefeal vascular; neuropathy; radiotherapy

Age

From **18 years** old to **80 years** old

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

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences

Street address

Faculty of Nursing and Midwifery, Tehran University of Medical Sciences, Nosrat St., Tohid Sq. ,1419733171, Tehran, Iran

City

Tehran

Postal code

00981419733171

Approval date

2010-07-19, 1389/04/28

Ethics committee reference number

1743707

Health conditions studied

1

Description of health condition studied

Pain

ICD-10 code

R52.9

ICD-10 code description

Pain, unspecified

Primary outcomes

1

Description

Pain

Timepoint

In first day without intervention. In second day after intervention

Method of measurement

Visual analoug scale

Secondary outcomes

1

Description

Side Effects Of Fistula

Timepoint

Before intervention

Method of measurement

Questionnair

Intervention groups

1

Description

Experimental group: received li4 ice massage at the 10 minute before arteriovenous fistula puncture: (Cold application was done with ice cubes wrapped in gloves on the web between the thumb and index finger of the hand not having the AV fistula (hoku) (contralateral arm). Pain degree during arterio-venous fistula puncture was measured with using a subjective pain scale (visual analogue scale): in first day without intervention. In second day after 10 minute intervention in patients again pain degree was measured.

Category

Rehabilitation

2

Description

Control group 1: received massage in wrist of contralateral arm at the 10 minute before arteriovenous fistula puncture . Pain degree during arterio-venous fistula puncture was measured with using a subjective pain scale (visual analogue scale): in first day without intervention. In second day after 10 minute intervention in patients again pain degree was measured.

Category

Other

3

Description

Control group 2: received li4 massag massage at the 10 minute before arteriovenous fistula puncture, web between the thumb and index finger of the hand not having the AV fistula (hoku) (contralateral arm). Pain degree during arterio-venous fistula puncture was measured with using a subjective pain scale (visual analogue scale): in first day without intervention. In second day after 10 minute intervention in patients again pain degree was measured.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Hasheminejad hospital

Full name of responsible person

Fariba soltanpoor

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Dr. nikbakht

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Faculty of Nursing and Midwifery, Tehran University of Medical Sciences, Nosrat St., Tohid Sq. ,1419733171, Tehran, Iran

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Tehran 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**

Tehran University of Medical Sciences

Full name of responsible person

Fariba Soltanpoor

Position

Msc student

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

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Person responsible for scientific inquiries

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Instructor

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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