

# 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

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 6692 7171

##### Email address

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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

**Street address**

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

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far\_soltanpoor@yahoo.com

**Web page address**

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Dr. nikbakht

**Street address**

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**

Faculty of Nursing and Midwifery, Tehran University of

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Tehran University of Medical Sciences

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**Position**

Instructor

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## Person responsible for updating data

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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*