

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

The effect of acupressure on severity of nausea and vomiting during hemodialysis in hemodialysis patients

Protocol summary

Summary

Objectives: Effect of acupressure on nausea and vomiting in patients undergoing hemodialysis. Design: Single blinded clinical trial. Setting and conduct: The intervention is carried out with in one group in three stages including routine care, applying acupressure, and placebo. Acupressure is performed by Sea-Band as an elastic band with a plastic button in its below. It is considered to be some sort of acupressure when the Sea-Band button is placed on the P6 point (Nei guan) on the inner surface of the forearm. On the other hand, it will be considered to have a placebo effect, when the Sea-Band button is placed on the opposite of P6 (Nei guan) on the back of the forearm. The routine treatment is consisted of routine interventions in the dialysis ward. Participants: Inclusion criteria are: (1) being alert; (2) not taking antiemetic drugs at least six hours before hemodialysis; (3) beginning of hemodialysis at least three months before the study; (4) being over 20 years old; (5) having no skin problem such as allergies and ulcers at the Sea-Band site; (6) being depended on three cycles of hemodialysis per week. Exclusion criteria are: (1) having a low level of consciousness, (2) being transfered to other centers during the study (3) requiring emergency hemodialysis; (4) taking a long journey by car just before hemodialysis ;(5) having acute gastrointestinal illnesses; (6) having pain or severe anxiety; (7) having motion sickness. Intervention: Interventions including routine care, applying acupressure, and placebo that is done in three stages. Main outcome measures (variables): Severity of nausea and vomiting.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201304298717N2**

Registration date: **2014-01-20, 1392/10/30**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-01-20, 1392/10/30

Registrant information

Name

Mohammad Reza Asgari

Name of organization / entity

Semnan University of Medical Sciences and Health and Treatment Services

Country

Iran (Islamic Republic of)

Phone

+98 23 1445 3365

Email address

asgari@sem-ums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Semnan University of Medical Sciences

Expected recruitment start date

2013-12-22, 1392/10/01

Expected recruitment end date

2014-06-22, 1393/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of acupressure on severity of nausea and vomiting during hemodialysis in hemodialysis patients

Public title

The effect of acupressure on prevention of nausea and vomiting

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria are: (1) being alert; (2) not taking antiemetic drugs at least six hours before hemodialysis; (3) beginning of hemodialysis at least three months before the study; (4) being over 20 years old; (5) having no skin problem such as allergies and ulcers at the Sea-Band site; (6) being depended on three cycles of hemodialysis per week. Exclusion criteria are: (1) having a low level of consciousness, (2) being transferred to other centers during the study (3) requiring emergency hemodialysis; (4) taking a long journey by car just before hemodialysis ;(5) having acute gastrointestinal illnesses; (6) having pain or severe anxiety; (7) having motion sickness.

Age

From **20 years** old to **90 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size:

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features

This study is single blinded so that patients do not know anything about the type of the intervention (acupressure or placebo). Also in this study, placebo is used, so that when the Sea-Band button is placed on the opposite site of P6 (Nei guan) on the back of the forearm, it has the placebo role. When the Sea-Band button is placed on the point P6 (Nei guan) in the inner surface of the forearm, it has the acupressure role.

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of semnan university of Medical Sciences

Street address

Semnan University of Medical Sciences, Semnan, Semnan Province, Iran

City

Semnan

Postal code

3519899951

Approval date

2010-08-20, 1389/05/29

Ethics committee reference number

372055/92

Health conditions studied**1****Description of health condition studied**

Chronic kidney disease

ICD-10 code

N18.5

ICD-10 code description

Chronic kidney disease, stage 5

Primary outcomes**1****Description**

Severity of vomiting

Timepoint

At the end of hemodialysis, after removing hemodialysis needles and dressing of vascular access site

Method of measurement

korttila vomiting severity scale

2**Description**

Severity of nausea

Timepoint

At the end of hemodialysis, after removing hemodialysis needles and dressing of vascular access site

Method of measurement

Verbal Numeric Rating Scale (VNRS)

Secondary outcomes

empty

Intervention groups**1****Description**

First intervention (Routine care): In the control group patients receive routine care, that is consisted of normal saline (200 ml) after nausea and vomiting. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

Category

Treatment - Other

2

Description

The second intervention (use of acupressure): In the intervention group, 10 minutes before inserting hemodialysis needles, the Sea-Band is closed on patients' wrists so that its button is placed on the P6 point (Nei guan) on the inner surface of the forearm, about 2 inches (three fingers width) above the Internal groove of wrist. The Sea-Band remains during hemodialysis and is removed at the end of hemodialysis just before removing hemodialysis needles. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

Category

Treatment - Devices

3

Description

The third intervention (use of placebo): In the intervention group, using placebo, 10 minutes before entering the hemodialysis needles, the Sea-Band is closed on patients' wrists so that its button is placed on opposite of P6 point (Nei guan) on the back of the forearm. The Sea-Band during hemodialysis remains and is removed at the end of hemodialysis just before removing hemodialysis needles. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Dialysis ward of Semnan Kowsar hospital

Full name of responsible person

Mohammad Reza Asgari

Street address

Department of dialysis, Kowsar hospital, Basij Boulevard, Semnan, Iran

City

Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Semnan University of Medical Sciences

Full name of responsible person

Dr. Raheb Ghorbani

Street address

Research and Technology Deputy of Semnan University of Medical Sciences, Basij Boulevard, Semnan, Iran

City

Semnan

Grant name

-

Grant code / Reference number

-

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice chancellor for research, Semnan 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

Semnan University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Asgari

Position

PhD in nursing - Faculty member

Other areas of specialty/work

Street address

Faculty of nursing and allied, Semnan University of Medical Sciences, Semnan, Iran

City

Semnan

Postal code

3514743365

Phone

+98 23 1445 3365

Fax

+98 23 1335 4191

Email

asgari5000@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Asgari

Position

PhD in nursing - Faculty member

Other areas of specialty/work

Street address

Faculty of nursing and allied, Semnan University of
Medical Sciences, Semnan, Iran

City

Semnan

Postal code

3514743365

Phone

+98 23 1445 3365

Fax

+98 23 1335 4191

Email

asgari5000@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Asgari

Position

PhD in nursing - Faculty member

Other areas of specialty/work

Street address

Faculty of nursing and allied, Semnan University of

Medical Sciences, Semnan, Iran

City

Semnan

Postal code

3514743365

Phone

+98 23 1445 3365

Fax

+98 23 1335 4191

Email

asgari5000@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