Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 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.
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

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

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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