

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jun 2026

Compare of acupressure and pressure on false points on constipation of patients with chronic renal failure undergoing hemodialysis in control and intervention groups

Protocol summary

Summary

Objectives: One of the most common digestive problem in patients undergoing hemodialysis is chronic constipation. With regard to the effect of acupressure on constipation of patients with chronic renal failure undergoing hemodialysis have not done in any studies in Iran; this study is doing for the effect of acupressure on constipation of these patients. Design: This study is a double-blind randomized clinical trial so that patients and researchers (collectors of questionnaires) will be blind about allocation of patients to control and intervention groups. Setting and conduct: The sample includes 60 patients with constipation undergoing hemodialysis in hospitals of Noshar, Chalus and Noor cities in Mazandaran province in Iran. They will be allocated alternately in control and intervention groups by permutation blocks with four blocks. Improving of constipation by increasing of number of defecation and improving of stool quality (based on Bristol criteria) will be measured. In intervention group, acupressure will be performed during hemodialysis for 4 weeks at 3 times in week and each time for 1 minute in points of acupressure. These points include: three knuckles from middle of abdomen in both sides of umbilicus, between the index finger and thumb in hands, between first and second finger in feet, down and outer of knees and two fingers below of umbilicus. In Control group, pressure will be performed in false points. Improving of constipation will be determined by increasing number of daily defecation and improving of stool quality (with Bristol criteria) before and after intervention. For analyzing of finding, descriptive and inferential statistics will be used. Significant level will be considered less than 0.05. Intervention: Doing pressure on acupressure points in intervention group and pressure on false points on control group Main outcome Measures: Number of daily defecation and quality of stool

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2015043022027N1**

Registration date: **2015-07-28, 1394/05/06**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-07-28, 1394/05/06

Registrant information

Name

Mohammad Mojalli

Name of organization / entity

Gonabad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 3722 5027

Email address

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Recruitment status

Recruitment complete

Funding source

Gonabad University of Medical Sciences

Expected recruitment start date

2015-06-22, 1394/04/01

Expected recruitment end date

2015-08-23, 1394/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Compare of acupressure and pressure on false points on constipation of patients with chronic renal failure undergoing hemodialysis in control and intervention groups

Public title

Effect of acupressure on constipation of hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Having constipation based on Rom 3 criteria (having 2 criterion from 6 criterion of constipation); having at least 6 months of hemodialysis; having dossier in dialysis unit; having hemodialysis 3 times and every times 4 hours in weeks; having full consciousness and ability of hearing and speaking; not having skin disease, progressive heart failure or stroke based on claim of patients; not having amputation or an ulcer at the site of acupressure; not using from laxatives in recently month; not having digestive disorders such as irritable bowel syndromes based on claim of patient, history and physical examination. Exclusion Criteria: Disrupting or failure to completing the study because of transition to acute care unit; death, traveling or having transplattation surgery; stressful life event such as death of relatives; unwillingness to continue the study.

Age

From **18 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

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

Double blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics Committee of Gonabad University of Medical Sciences

Street address

Next to the Asian Road

City

Gonabad

Postal code**Approval date**

2013-09-23, 1392/07/01

Ethics committee reference number

Gmu.Rec.1392.53

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

Chronic Renal failure

ICD-10 code

N18.5

ICD-10 code description

Chronic kidney disease, stage 5

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

daily defecation

Timepoint

Before intervention and 4 weeks after intervention

Method of measurement

Daily number of defecation

2**Description**

Quality of stool

Timepoint

Before intervention and 4 weeks after intervention

Method of measurement

compare of shape of stool with pictures of stool (based on Bristol criterion)

Secondary outcomes

empty

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

Control group: Doing acupressure on false points

Category

Other

2**Description**

Intervention group: Doing acupressure 3 times and each

times for 1 minute in points of acupressure: three knuckle from midline of abdomen in both sides of umbilicus, between the index finger and thumb in hands, between first and second finger in feet, down and outer of knees and two fingers below the umbilicus

Category

Treatment - Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Taleghani Hospital

Full name of responsible person**Street address****City**

Chalus

2**Recruitment center****Name of recruitment center**

Emam Khomeini Hospital

Full name of responsible person**Street address****City**

Noor

3**Recruitment center****Name of recruitment center**

Shahid Beheshti Hospital

Full name of responsible person**Street address****City**

Noshahr

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

Vice Chancellor for research of Gonabad University of Medical Sciences

Full name of responsible person

Ali Mohammad pour

Street address

Next to the Asian Road, Gonabad University of Medical Sciences

City

Gonabad

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 of Gonabad 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**

Gonabad University of Medical Sciences

Full name of responsible person

Mohammad Mojalli

Position

PhD in Nursing Education

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Web page address

Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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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