Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

The effect of acupressure on bowel elimination in patients with skeletal traction

Protocol summary

Summary

It is a non-randomized clinical trial that conducted in the Sina and Shariati hospitals of Tehran University of Medical Sciences. Using simple(convenience) sampling method, 120 patients with skeletal traction assigned to acupressure group(n=60) and control group(n=60). All patients received usual care nursing. Acupressure on Tianshu(ST25), Zhigou(SJ6), Hegu(LI4) points performed in experimental group for two min, twice a day for 3 days.The control group received only usual care nursing. After the first defecation, bowel movements measured by questionnaires. Finally, satisfaction with bowel movement is also measured by questionnaire.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT201504225987N20**
Registration date: **2015-08-03, 1394/05/12**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-08-03, 1394/05/12

Registrant information

Name

Shahrzad Ghiyasvandian

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6692 7171

Email address

shghiyas@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tehran University of Medical Sciences

Expected recruitment start date

2015-05-12, 1394/02/22

Expected recruitment end date

2015-08-26, 1394/06/04

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of acupressure on bowel elimination in patients with skeletal traction

Public title

-

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age 18 to 60 years; the ability to communicate in Persian; no hearing problem; no risk of gastrointestinal disorder such as irritable bowel syndrome and chronic constipation; lack of drug use; lack of mental illness; a limb skeletal traction or cervical vertebral of Krutchfield; lack of pregnancy; the patient is not NPO for 12 hours before intervention. Exclusion criteria: Serious disease that causes a change in bowel movements and unwillingness to continue the cooperation of the patient in the study at any time of the study.

Age

From **18 years** old to **60 years** old

Gender

Both

Phase
2
Groups that have been masked
No information
Sample size
Target sample size: **120**
Randomization (investigator's opinion)
Not randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
Hospitals will be chosen by a coin toss.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Tehran University of Medical Sciences
Street address
Central building of Tehran University of Medical Sciences, Qods street, Keshavarz blvd, Tehran, Iran
City
Tehran
Postal code
1417614411
Approval date
2015-04-22, 1394/02/02
Ethics committee reference number
IR.TUMS.REC. 1394. 314

Health conditions studied

1

Description of health condition studied
bowel elimination in patients with skeletal traction
ICD-10 code
K55, K56,
ICD-10 code description
Other diseases of intestines

Primary outcomes

1

Description
Bowel elimination
Timepoint
First defecation after skeletal traction
Method of measurement
A questionnaire survey of bowel movements

Secondary outcomes

1

Description
satisfaction of defecation
Timepoint
after first defecation
Method of measurement
questionnaire

Intervention groups

1

Description
Intervention group: Before the start of the intervention, nurse researcher in the study received training by a certified traditional Chinese physition. Patients placed in the supine position, and then gradually, acupressure exerted with thumbs on the acupressure points: Tianshu(ST25), Zhigou(SJ6), Hegu(LI4) for 2 minutes until they felt pain or soreness. Procedure performed daily, once in the morning and again in the evening. The intervention started on the first day after the placement of the skeletal traction for 3 days. Bowel elimination questionnaire completed after first defecation. Finally, satisfaction with bowel movement is also measured by questionnaire.
Category
Other

2

Description
Control group: Patients in the control groups received only usual nursing care. Bowel elimination questionnaire completed after first defecation. Finally, satisfaction with bowel elimination is also measured by questionnaire.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Shariati hospital
Full name of responsible person
Maryam Fadaei
Street address
Shariati hospital, Amir abad, Tehran, Iran
City
Tehran

2

Recruitment center

Name of recruitment center
Sina hospital

Full name of responsible person
Maryam Fadaei

Street address
Sina hospital, Hassan abad square, Emam Khomeini street, Tehran, Iran

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor of researcher, Tehran University of Medical Sciences

Full name of responsible person
Masoud Younesian

Street address
The central building ot Tehran University of Medical Sciences, Qods street, keshavarz blvd, 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
Vice chancellor of researcher, 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
Maryam Fadaei

Position
Master science student of nursing

Other areas of specialty/work

Street address
The faculty of nursing and midwifery of Tehran University of Medical Sciences, Nosrat street, Tohid square, Tehran, Iran

City
Tehran

Postal code
1419733171

Phone
+98 21 6642 0739

Fax
+98 21 6693 3600

Email
Maryamfadaei0@gmail.com

Web page address
www.fnm.tums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tehran University of Medical Science

Full name of responsible person
Shahrzad Ghiyasvandian

Position
Associate professor

Other areas of specialty/work

Street address
The faculty of nursing and midwifery of Tehran University of Medical Sciences, Nosrat street, Tohid square, Tehran, Iran

City
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Postal code
1419733171

Phone
+98 21 6642 0739

Fax
+98 21 6693 3600

Email
Shghiyas@tums.ac.ir

Web page address
www.fnm.tums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Shahrzad Ghiyasvandian

Position
Associate professor

Other areas of specialty/work

Street address
The faculty of nursing and midwifery of Tehran University of Medical Sciences, Nosrat street, Tohid square, Tehran, Iran

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Phone
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Fax

+98 21 6693 3600
Email
Shghiyas@tums.ac.ir
Web page address
www.fnm.tums.ac.ir

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