

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

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

#### Protocol summary

shghiyas@tums.ac.ir

#### 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.

#### 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

#### 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

#### 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 of 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**

Tehran

**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

**City**

Tehran

**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

**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*