

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

18 Jul 2026

### The effect of education on awareness of occupational health and safety instructions and musculoskeletal disorders related to work in staff ICUs

#### Protocol summary

##### Summary

This study is a clinical trial, adjusted in accordance with OSHA to verify the effect of education on knowledge and work-related musculoskeletal disorders among employees intensive care unit (ICU) and Amiralmomenin & Vali Asr hospitals affiliated with Arak University of Medical Sciences will be determined. A total of 60 staff of the ICU including nurses, health workers, aid workers and hospital services selected with a convenience sampling and will be randomly divided into control and intervention groups. Training for group intervention (for any shifts morning, afternoon, evening separately) in two 2-hour workshop will be. The first workshop, which includes educational goals and educational content standards (prepared by the investigator based on modified (OSHA) on how to properly transport patients for a period of 30-45 minutes will be distributed; then the issue will be discussed in a group discussion and the questions and answers will be done. In the second workshop staff how to properly transport patients (from stretcher to bed, bed to stretcher, bed to bed, bed to wheelchair, and wheelchair to bed) in the form of practical training under the supervision of a researcher on the replica will train. In the control group routine methods will be used to transport patients. Finally, the two groups will be tested.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015050521896N2**

Registration date: **2015-05-30, 1394/03/09**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

**Registration date**

2015-05-30, 1394/03/09

##### Registrant information

###### Name

Mokhtar Mahmoudi

###### Name of organization / entity

Iran University Of Medical Science

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 4435 5764

###### Email address

mokhtar.mahmoudi@arakmu.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

The College of Nursing and Midwifery of Ark

##### Expected recruitment start date

2015-05-10, 1394/02/20

##### Expected recruitment end date

2015-09-11, 1394/06/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of education on awareness of occupational health and safety instructions and musculoskeletal disorders related to work in staff ICUs

##### Public title

The effect of education on awareness of occupational health and safety instructions and musculoskeletal disorders related to work in staff ICUs

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion criteria: participants are aged between 18-50 years old; have at least one year of work experience; willing to participate in the study; employees of transport and movement of patients based on OSHA guidelines are not observed; the patient has no pain. Exclusion criteria: participants have bone surgery, Scoliosis, fractures, pregnancy, osteoporosis, cancer, multiple sclerosis; turn over (resignation and pension) or change part in the study.

**Age**

From **18 years** old to **55 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)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

arak university of medical science

**Street address**

Arak, Sardasht, arak university of medical science, the college of nursing and midwifery

**City**

Arak

**Postal code**

38481-7-69-41

**Approval date**

2015-02-08, 1393/11/19

**Ethics committee reference number**

8-174-93

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

Musculoskeletal system disorder

**ICD-10 code**

M0-99

**ICD-10 code description**

Diseases of the musculoskeletal system and connective tissue

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

Awareness of musculoskeletal disorders

**Timepoint**

Three months after the intervention.

**Method of measurement**

Using work-related musculoskeletal disorders questionnaire (survey on work-related musculoskeletal disorders among nigeruian nurses

**Secondary outcomes****1****Description**

Knowledge of musculoskeletal disorders

**Timepoint**

Three months after the intervention.

**Method of measurement**

Check list of clinical nursing procedures

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

Training for group intervention (for any shifts morning, afternoon, evening separately) in two 2-hour workshop will be, The first workshop, which includes educational goals and educational content standards (prepared by the investigator based on modified (OSHA) on how to properly transport patients for a period of 30-45 minutes will be distributed, Then the issue will be discussed in a group discussion and the questions and answers will be done. In the second workshop staff how to properly transport patients (from stretcher to bed, bed to stretcher, bed to bed, bed to wheelchair, wheelchair to bed) in the form of practical training under the supervision of a researcher on the replica will train,

**Category**

Other

**2****Description**

In the control group, routin method for transport patient will be use.

**Category**

Other

**Recruitment centers**

1

**Recruitment center**

**Name of recruitment center**

Amiralmomenin Hospital

**Full name of responsible person**

Ms Hajian Leila

**Street address**

Amiralmomenin Hospita center,Sardasht,Arak,Iran

**City**

Arak

**Sponsors / Funding sources**

1

**Sponsor**

**Name of organization / entity**

Arak university of medical science

**Full name of responsible person**

Dr Rafii

**Street address**

College of nursing and midwifery,Sardasht,Arak,Iran

**City**

Arak

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Arak university of medical science

**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**

college of nursing and midwifery

**Full name of responsible person**

Mahmoudi Mokhtar

**Position**

Msc in nursing

**Other areas of specialty/work**

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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*