

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

The Effect of Nurses Training on Observance of The Principles of X-ray protection

Protocol summary

Study aim

Determining the Effect of Nurses Training on Observing X-Ray Protective Principles

Design

Radomized clinical trial will be done on 100 nurses.

Settings and conduct

This study will be carried out on nurses working in Besat and Beheshti hospitals of Hamadan and blindness will not be done.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Bachelor's degree in nursing, Have a clinical experience more than six months

Intervention groups

Intervention: Training in this group includes targeted activities to transfer information and knowledge about the principles of radiation protection, which will be carried out using the social network (telegram channel).
Control: Control: No action will be taken.

Main outcome variables

knowledge

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160110025929N10**

Registration date: **2018-02-24, 1396/12/05**

Registration timing: **registered_while_recruiting**

Last update: **2018-02-24, 1396/12/05**

Update count: **0**

Registration date

2018-02-24, 1396/12/05

Registrant information

Name

Mehdi Molavi Vardanjani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 3422 5056

Email address

m.molavi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-20, 1396/12/01

Expected recruitment end date

2018-09-21, 1397/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Nurses Training on Observance of The Principles of X-ray protection

Public title

Effect of education on Observance X-ray protection

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Bachelor's degree in nursing Have a clinical experience more than six months

Exclusion criteria:

Lack of cooperation Missing more than one training session

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 100

Randomization (investigator's opinion)

Randomized

Randomization description

Randomly, 100 nurses are selected. Then using random blocks, they will be divided equally in two groups of intervention and control.

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**

Ethics Committee of Hamadan University of Medical Sciences

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

City

Hamadan

Province

Hamadan

Postal code

38698-65178

Approval date

2017-09-02, 1396/06/11

Ethics committee reference number

IR.UMSHA.REC.1396.412

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

Health education

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

knowledge

Timepoint

Before and after intervention

Method of measurement

Questionnaire

Secondary outcomes

empty

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

Intervention group: In the intervention group (training based on the telegram channel), the training will take place in the form of text, PowerPoint and educational video. The training will take place in 3 sessions for a week, which will be on the telegram channel every two days. At the first meeting on beam physics, the second meeting will focus on the dangers of radiation, and in the third session, radiation protection and protection will be taught. To answer the questions of the channel members, the link to the channel manager is placed on the channel and the attendance of the members is made for the participation in the training sessions through the telegram robot. People who do not participate in more than one training session are excluded. First, one week after intervention and one month after intervention, the knowledge and practice of nurses in both groups were compared with the same questionnaire and previous checklist that were used in the pre-test, by the researcher and attending the relevant sections. Placed. At the end of the research, all the materials taught to the intervention group will be provided to the control group as a CD

Category

N/A

2**Description**

Control group: No action will be taken

Category

N/A

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

Besat and Beheshti hospitals

Full name of responsible person

Marzieh Hasanian

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

City

Hamadan

Province

Hamadan

Postal code
38698-65178
Phone
+98 81 3838 0572
Email
hassanian1226@yahoo.com

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

City
Hamadan
Province
Hamadan
Postal code
38698-65178
Phone
+98 81 3838 0572
Email
hassanian1226@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
سعید بشیریان
Street address
Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan
City
Hamadan
Province
Hamadan
Postal code
38698-65178
Phone
+98 81 3838 1646
Email
s-bashirian@umsha.ac.ir
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Marzieh Hasanian
Position
Assistant Professor
Latest degree
Ph.D.
Other areas of specialty/work
Nursery
Street address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Marzieh Hasanian
Position
Assistant Professor
Latest degree
Ph.D.
Other areas of specialty/work
Nursery
Street address
Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan
City
Hamadan
Province
Hamadan
Postal code
38698-65178
Phone
+98 81 3838 0572
Email
hassanian1226@yahoo.com

Person responsible for updating data

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Nastaran Karami
Position
Student
Latest degree
Bachelor
Other areas of specialty/work
Nursery
Street address
Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan
City
Hamadan
Province
Hamadan
Postal code

38698-65178

Phone

+98 81 3838 0572

Email

nastarankarami333@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available