Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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
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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
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
سعید بشیریان
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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
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Person responsible for updating data

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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