Clinical Trial Protocol
Iranian Registry of Clinical Trials

31 Oct 2026

Investigating the Effect of Lecture Training and Clinical Education on the Care of Patients with Angina Pectoris on Knowledge, Attitude and Practice of Nurses in Emergency Department of Military Hospitals of Mashhad.

Protocol summary

Study aim

Determination investigating the Effect of Lecture Training and Clinical Education on the Care of Patients with Angina Pectoris on Knowledge, Attitude and Practice of Nurses in Emergency Department of Military Hospitals of Mashhad.

Design

The statistical population of this research is nurses working in the emergency department of three military hospitals in Mashhad in 1397. Sampling method: The units selected will be selected using the entire census method, which will include all nurses of the Emergency department of military hospitals in Mashhad and then randomly assigned to three groups (two intervention groups and one control group).

Settings and conduct

In the lecture group, the training will be conducted by the researcher.Place of training is in the auditorium of the military hospitals in Mashhad. In the clinical education group, the place of education in the bedside will be angina patients hospitalized in cardiovascular departments of military hospitals in Mashhad.

Participants/Inclusion and exclusion criteria

Nurses with a degree in Nursing who do not have a history of training on angina pectoris in the last six months and have at least one year of experience in the emergency department or in the CCU department are included in the study.

Intervention groups

Nurses in Emergency Department of Military Hospitals of Mashhad

Main outcome variables

Knowledge Score from knowledge Questionnaire; Attitude Score of Attitude Questionnaire; Practice Score of the Practice Questionnaire

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181015041350N1**
Registration date: **2018-10-30, 1397/08/08**
Registration timing: **prospective**

Last update: **2018-10-30, 1397/08/08**
Update count: **0**

Registration date

2018-10-30, 1397/08/08

Registrant information

Name

Reza Yousefi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-11-11, 1397/08/20

Expected recruitment end date

2019-01-10, 1397/10/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Investigating the Effect of Lecture Training and Clinical Education on the Care of Patients with Angina Pectoris on Knowledge, Attitude and Practice of Nurses in Emergency Department of Military Hospitals of Mashhad.

Public title
The Effect of Education on knowledge, Attitude and Practice of Nurses

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:
Having a minimum degree of nursing expert Not having a history of teaching (theoretical and practical) regarding angina pectoris in the last six months Wish to participate in the study Having at least one year of Clinical work in Emergency or in a CCU Section

Exclusion criteria:
Unwillingness to continue cooperation in research People who miss more than 30% of the course Failure to complete pre-test or post-test

Age
No age limit

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
In this study, firstly, nurses of the emergency department after the explanation of the research goals will be based on simple random sampling criteria in two groups of test and one control group. The knowledge, attitude and practice of nurses before and after the implementation of the curriculum (lecture-clinical education) will be investigated.Before the intervention, the pre-test will be held in three groups.Immediately and one month after the intervention, all participants will receive a post-test.The practice questionnaire will be completed by the researcher.

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 Aja University of Medical Science

Street address
West Fatemi St. - Shahid Etemadzadeh Avenue - Aja University of Medical Science

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Tehran

Province
Tehran

Postal code
1411718541

Approval date
2018-10-14, 1397/07/22

Ethics committee reference number
IR.AJAUMS.REC.1397.036

Health conditions studied

1

Description of health condition studied
Nurses in Emergency Department of Military Hospitals of Mashhad.

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
Knowledge Score from knowledge Questionnaire

Timepoint
Knowledge score at the beginning of the study (before the intervention) and immediately and one month after the intervention

Method of measurement
Knowledge Questionnaire which is made by the researcher

2

Description
Attitude Score of Attitude Questionnaire

Timepoint
Attitude score at the beginning of the study (before the intervention) and immediately and one month after the intervention

Method of measurement
Attitude Questionnaire which is made by the researcher

3

Description
Practice Score of the Practice Questionnaire

Timepoint
Practice score at the beginning of the study (before the

intervention) and immediately and one month after the intervention

Method of measurement

Practice Questionnaire which is made by the researcher

Secondary outcomes

1

Description

Knowledge of Nurses on how to care for patients with angina pectoris

Timepoint

Knowledge of Nursesat the beginning of the study (before the intervention) and immediately and one month after the intervention

Method of measurement

Short Knowledge Questionnaire 18 questions which is made by the researcher

2

Description

Attitude of Nurses on how to care for patients with angina pectoris

Timepoint

Attitude of Nursesat the beginning of the study (before the intervention) and immediately and one month after the intervention

Method of measurement

Short Attitude Questionnaire 7 questions which is made by the researcher

3

Description

Practice of Nurses on how to care for patients with angina pectoris

Timepoint

Practice of Nursesat the beginning of the study (before the intervention) and immediately and one month after the intervention

Method of measurement

Short Practice Questionnaire 24 questions which is made by the researcher

Intervention groups

1

Description

Intervention group First: Group Lecture Training Education: The number of nurses in the classroom will be better for learning, with a minimum of 5 people and a maximum of 15 people. Accidentally, each hospital will be in one of three groups (lecture group, clinical education, control). The number of samples in the three hospitals will be the same. The training place is at conference halls of military hospitals in Mashhad. Training for nurses will be done in a 5-hour session. The knowledge and attitude questionnaire will be completed immediately and one month after the completion of the training sessions by the units under study. A practice questionnaire is completed by the researcher at the same time that will examine the proper functioning of nurses in training for patients with angina pectoris.

Category

Behavior

2

Description

Intervention group Second: Group Clinical Education: The place of education in the bedside of patients with angina pectoris will be held in the cardiovascular departments of military hospitals in Mashhad. The number of trainees is maximum 5 people. Training for nurses will be done in a 5-hour session. The knowledge and attitude questionnaire will be completed immediately and one month after the completion of the training sessions by the units under study. A practice questionnaire is completed by the researcher at the same time that will examine the proper functioning of nurses in training for patients with angina pectoris.

Category

Behavior

3

Description

Control group: In the intervention group, the investigator will not be accepted and only one pretest and two post-tests will be completed within a month's time interval. In order to observe ethical principles in the research, the contents and training will be given to the control group upon completion of the research

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Samen Al Aemmeh Regional Hospital (Mashhad)

Full name of responsible person

Reza Yousefi

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Web page address
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Artesh 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
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Full name of responsible person
Reza Yousefi
Position
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Latest degree
Bachelor
Other areas of specialty/work
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Sharing after the study.

When the data will become available and for how long

Sharing after the study.

To whom data/document is available

After the end of the study, be distributed to researchers working in academic and academic institutions.

Under which criteria data/document could be used

After the end of the study, summarize the article for scholars working in academic and scientific institutions.

From where data/document is obtainable

After the end of the study, email address applicants will be shared.

What processes are involved for a request to access data/document

After the end of the study, applicants can request access to files by visiting an email address.

Comments