Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

The Effect of Simulation-based Training on Nursing Students' Knowledge and Performance about Adult Basic Cardiopulmonary Resuscitation

Protocol summary

Summary

Objective: Determining the Effect of Simulation Based Education on Knowledge and Performance of Adult Basic Pulmonary Recovery in Nursing Students. Study design: An experimental study with a pre-test and post-test design with a blind and randomized group. Study population: All six semester undergraduate students at nursing faculty of Iran University of Medical Sciences. Exclusion criteria: No attendance at any of the training sessions. Summary of the study: Intervention: 1-Explaining the method of work and obtaining written consent. 2-Accidental division of two six semester classes into two groups of intervention and control. 3-Complete demographic information form and Knowledge Survey on adult BLS by each student. 4-Obtain an adult BLS performance test based on an observational checklist as the basic function of students in both groups. 5-Getting the most current adult BLS tutorials using PowerPoint presentations and video projections, training and practice exercises on CPR mannequins by both groups. 6-The simulation-based group students, after receiving a common training, are trained on the CPR training mannequins for 30 minutes based on the two defined BLS scenarios, and they are trained in 3-person training. Then, in groups of 3, they will practice for 5 minutes and then they will conduct a five-minute analysis of their performance by directing the researcher. Immediately and 3 months after the intervention, a post-test is used to assess the knowledge and performance of adult BLS from both groups of students.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017102436974N1**
Registration date: **2017-11-06, 1396/08/15**
Registration timing: **registered_while_recruiting**
Last update:
Update count: **0**

Registration date

2017-11-06, 1396/08/15

Registrant information

Name

Tahereh Habibli

Name of organization / entity

Faculty of Nursing and Midwifery of Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2017-11-01, 1396/08/10

Expected recruitment end date

2018-02-20, 1396/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Simulation-based Training on Nursing Students' Knowledge and Performance about Adult Basic Cardiopulmonary Resuscitation

Public title

The Effect of Simulation-based Training on Knowledge and Performance about Adult Basic Cardiopulmonary

Resuscitation

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: Having the consent to participate in the study. Exclusion criteria: Not attending one of the training sessions.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Iran University of Medical Sciences

Street address

Tehran, Hemmat freeway, Milad tower, Iran University of Medical Sciences

City

Tehran

Postal code

1449614535

Approval date

2017-06-18, 1396/03/28

Ethics committee reference number

IR.IUMS.FMD.REC1396.9411706005

Health conditions studied

1

Description of health condition studied

Cardiac arrest

ICD-10 code

I46.9

ICD-10 code description

Cardiac arrest, unspecified

Primary outcomes

1

Description

Knowledge

Timepoint

Before intervention, Immediately after intervention, 3 month after intervention

Method of measurement

Researcher-made questionnaire on knowledge of adult cardiopulmonary resuscitation

2

Description

Performance

Timepoint

Before intervention, Immediately after intervention, 3 month after intervention

Method of measurement

Adjusted checklist from the American Heart Association checklist 2015

Secondary outcomes

empty

Intervention groups

1

Description

control group: 1-Explaining the method of work and obtaining written consent. 2-Complete demographic information form and Knowledge Survey on adult BLS by each student. 3-Obtaining an adult BLS performance test based on the checklist as the basic function of the students. 4-Get Basic Tutorials for Adult BLS by PowerPoint Presentations and Movie Previews, Practical Training and Practice on CPR Mannequins. 5-Immediately and 3 months after the intervention, a post-test is used to assess the knowledge and performance of adult BLS.

Category

Other

2

Description

Intervention group: 1-Explaining the method of work and obtaining written consent. 2-Complete demographic information form and Knowledge Survey on adult BLS by each student. 3-Obtaining an adult BLS performance test based on the checklist as the basic function of the students. 4-Get Basic Tutorials for Adult BLS by PowerPoint Presentations and Movie Previews, Practical Training and Practice on CPR Mannequins. 5-Students of this group after training at the College Clinical Skills, Which is simulated to the pre-hospital and hospital setting, Based on the two scenarios described in the pre-

hospital and hospital BLS on the CPR training mannequins, they trained for 30 minutes and trained in groups of 3 on the basis of the same scenarios. 6-Then, each student in a group of 3, 5 minutes and a total of 15 minutes to practice, and after completing the training, each of these groups of 3 people for 5-10 minutes will analyze their performance with the guidance of the researcher. . Immediately and 3 months after the intervention, a post-test is used to assess the knowledge and performance of adult BLS.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Faculty of Nursing and Midwifery, Iran University of Medical Sciences

Full name of responsible person

Tahereh Habibli

Street address

Tehran, Valiasr St., above Vanak Square, Rashid Yasemi Street Faculty of Nursing and Midwifery of Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Hamid Peyravi

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Tehran, Valiasr St., above Vanak Square, Rashid Yasemi Street Faculty of Nursing and Midwifery of Iran University of Medical Sciences

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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

Iran 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

Faculty of Nursing and Midwifery of Iran University of Medical Sciences

Full name of responsible person

Tahereh Najafi

Position

phD of nursing, Deputy of the Faculty of Nursing and Midwifery

Other areas of specialty/work

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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