

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of electronic content, cell phone app and lecture training methods on nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation

Protocol summary

Study aim

Comparison of electronic content, cell phone app and lecture training methods on nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation in Iranian Social Security Organization Hospitals

Design

This is a quasi-experimental research with Pretest-Post-test design in three groups (Lecture, cell phone app and electronic content) on Cardio Pulmonary Resuscitation . The population is all nurse working in three Iranian Social Security Organization Hospitals including Shahid Lavasani, shahid Labafinejad and Martyrs of panzdah khordad . The sample will be selected randomly from nurses working in three Social Security Organization hospitals. Each hospital will be randomly assigned to one of the teaching method i.e. Lecture, cell phone app and electronic content. The topics on Cardio Pulmonary Resuscitation in three groups will be similar. The possibility of contact and interaction with researchers will be provided in case of any question or problem. The information gathering tools are a questionnaire for assessment of knowledge and a checklist for assessment of the self-confidence.

Settings and conduct

Three training methods will be randomly used for nurses working in Iranian Social Security Organization Hospitals located in Tehran province

Participants/Inclusion and exclusion criteria

The sample will be selected randomly from nurses working in three Social Security Organization hospitals. Exclusion criteria will be unwillingness to participate in the study

Intervention groups

Lecture on Cardio Pulmonary Resuscitation group, cell phone app on Cardio Pulmonary Resuscitation group and electronic content on Cardio Pulmonary Resuscitation

group

Main outcome variables

Nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171125037620N2**

Registration date: **2019-02-15, 1397/11/26**

Registration timing: **prospective**

Last update: **2019-02-15, 1397/11/26**

Update count: **0**

Registration date

2019-02-15, 1397/11/26

Registrant information

Name

Mitra Gharib

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4203 6001

Email address

gharibmi@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-04, 1398/01/15

Expected recruitment end date

2019-05-20, 1398/02/30

Actual recruitment start date

empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of electronic content, cell phone app and lecture training methods on nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation

Public title
Comparison of electronic content, cell phone app and lecture training methods on nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
All nurses working in Iranian Social Security Organization Hospitals
Exclusion criteria:
Unwillingness to participate in the study

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **186**

Randomization (investigator's opinion)
Randomized

Randomization description
The sample will be selected from nurses working in three Social Security Organization hospitals. Using a lottery process, the training method will be chosen for each hospital by a colleague . As a result, training method will be randomly selected for each hospital. In each center, samples will be selected from the complete list of nurses working in the center randomly according to random digits table.

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tehran University of Medical Sciences

Street address

Tehran University of Medical Sciences, Keshavarz Blvd. Tehran Iran

City

Tehran

Province

Tehran

Postal code

1417653761

Approval date

2018-11-24, 1397/09/03

Ethics committee reference number

IR.TUMS.VCR.REC.1397.638

Health conditions studied

1

Description of health condition studied

Nurse's retention of knowledge and self-confidence on Cardio Pulmonary Resuscitation

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Nurses' retention of knowledge on Cardio Pulmonary Resuscitation

Timepoint

Pretest before educational intervention and post test six week after educational intervention

Method of measurement

Questionnaire

2

Description

Nurses' Self-confidence on Cardio Pulmonary Resuscitation

Timepoint

Pretest before educational intervention and post test six week after educational intervention

Method of measurement

checklist

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: For the E-content group, the educational content on Cardio Pulmonary Resuscitation will be designed according to Bergman and Moore model. The content will be uploaded in the educational site of Iranian Social Security Organization at <https://training.tamin.ir> for the use of nurses in this group.

Category

N/A

2

Description

Intervention group: For the Mobile app group, life-cycle Model will be used for application development . The app will be used for delivering the educational content on Cardio Pulmonary Resuscitation to nurses in this group.

Category

N/A

3

Description

Control group: For the lecture group, the educational content on Cardio Pulmonary Resuscitation will be presented in a face to face format in the conference hall of the hospital via lecture accompanied by power-point, film, image and educational mannequin.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Iranian Social Security Organization Hospitals

Full name of responsible person

Alireza Mohsenipour Foumani

Street address

Shahid Lavasani Heart Center, End of East Zineaddin Highway

City

Tehran

Province

Tehran

Postal code

1740003114

Phone

+98 21 7731 1011

Email

alirezamfoumany@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mitra Gharib

Street address

No2, Dolatshahi dead end, Naderi St., Keshavarz BLVD

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Phone

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gharibmi@sina.tums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran 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

Iranian Social Security Organization

Full name of responsible person

Alireza Mohsenipour Foumany

Position

Clinical Supervisor of Shahid Lavasani Heart Center

Latest degree

Bachelor

Other areas of specialty/work

Nursery

Street address

Shahid Lavasani Heart Center, the end of the Hemmat East, the Yasini North (Sorkheh Hesar)

City

Tehran

Province

Tehran

Postal code

1740003114

Phone

+98 21 7731 1011

Email

alirezamfoumany@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mitra Gharib

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Distance Education planning

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No2, Dolatshahi dead end, Naderi St., Keshavarz BLVD, Tehran. Iran

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Person responsible for updating data

Contact

Name of organization / entity

Iranian Social Security Organization

Full name of responsible person

Alireza Mohsenipour Foumany

Position

Clinical Supervisor of Shahid Lavasani Heart Center

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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City

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Postal code

1740003114

Phone

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Email

alirezamfoumany@gmail.com

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

The questionnaire, checklist and the survey results about nurses' retention of knowledge and self-confidence will be published in a scientific (Either Farsi or English language) journal

When the data will become available and for how long

Access to data will be possible after the publication of the article in a scientific journal

To whom data/document is available

Researchers practicing in universities or academic institutions can have access to data

Under which criteria data/document could be used

Researchers can use the questionnaire and checklist for similar research

From where data/document is obtainable

Researchers can reach us via the following contact details. Address: No2, Dolatshahi dead end, Naderi St., Keshavarz BLVD, Tehran, Iran Postal Code: 1416614741 Tel: +98 21 4203 6001

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

15 days after receiving a written request from a researcher, the requested data will be emailed to him/her

Comments