

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of two basic cardiopulmonary resuscitation training methods of face-to-face and virtual on learning resuscitation skills in military families

Protocol summary

Study aim

Comparing the effect of two methods of basic cardiopulmonary resuscitation training, in-person and virtual, on the rate of learning resuscitation skills in military families

Design

An interventional study on 100 samples, with parallel groups, no blinding, randomized, due to the lack of use of drugs, there is no example. Randomization is done based on blocks of 4 in two groups.

Settings and conduct

This study is conducted in the organization homes Tehran. People who are eligible to enter the study (families) are selected and then the necessary explanation is given regarding the working method and objectives of the study and the necessary consent is obtained from them. Their knowledge about cardiopulmonary resuscitation is collected, and further, by using the performance review checklist which includes 12 items, the performance of these people in dealing with a cardiac arrest victim (mannequin) is measured practically through the researcher's observation. People who score less than 12 will participate in the course and will be placed in two training intervention groups, one face-to-face and one virtual. Cardiac arrest is taught theoretically and practically (mannequin). In virtual training, using virtual channels and sending videos, photos, and PDF files of the training booklet will be provided during two weeks. And then a week after the test is done in both groups. is done Then the researcher compares these two methods.

Participants/Inclusion and exclusion criteria

Being 12 years old or older; willingness to participate in research; reading and writing literacy; Physical and mental ability to perform CPR; the participant is not a member of the health and treatment team.

Intervention groups

Intervention group the face-to-face training group ,
intervention group the virtual training group.

Main outcome variables

Level of learning

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20211208053335N1**

Registration date: **2022-11-01, 1401/08/10**

Registration timing: **prospective**

Last update: **2022-11-01, 1401/08/10**

Update count: **0**

Registration date

2022-11-01, 1401/08/10

Registrant information

Name

masoumeh ahmadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6581 0161

Email address

ahmadimail.m@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-11-22, 1401/09/01

Expected recruitment end date

2023-01-21, 1401/11/01

Actual recruitment start date

empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of two basic cardiopulmonary resuscitation training methods of face-to-face and virtual on learning resuscitation skills in military families

Public title
Comparison of two basic cardiopulmonary resuscitation training methods of face-to-face and virtual

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
 Being 12 years old or older Literacy for reading and writing Physical and mental ability to perform CPR
 Consent to participate in research
Exclusion criteria:
 Be a member of the health and treatment team

Age
From **12 years** old

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
Considering that the research will be an intervention study and has two conditions of intervention and random allocation, then the sampling method is based on the criteria of entering the available sampling method and then random allocation with blocks of four in two training groups. The face-to-face method and the training will be virtual. The method of random assignment with blocks of four is that the letter A is assigned to the training group by the face-to-face method and the letter B is assigned to the training group by the virtual method, and in the blocks of four with the letters A and B, six states AABB, BBAA, ABAB, BABA , ABBA, BAAB are written on separate sheets and thrown into a container. Randomly, one of these sheets is taken out of the container and the composition written on it is memorized, and that sheet is thrown into the container again. Because the sample size in this study is 100 patients, this process is repeated 25 times and each time the combination written on the sheet is written in the sequence of the combination written on the previous sheet, and then a number from one to one hundred is written in order of letters to each letter. has been allocated consecutively. Each letter is placed inside a matte envelope and numbers 1 to 100 are written on the envelope. Each time a participant is selected, one of these envelopes is opened in the order of the number written on the envelope and it is

determined which group the participant should be placed in.

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 Baqiyatallah Hospital

Street address

Baqiyatullah University of Medical Sciences, Nusrati Street, South Sheikh Bahai Street

City

Tehran

Province

Tehran

Postal code

1435916471

Approval date

2022-10-03, 1401/07/11

Ethics committee reference number

IR.BMSU.BAQ.REC.1401.054

Health conditions studied

1

Description of health condition studied

Basic cardiopulmonary resuscitation

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Level of awareness and performance

Timepoint

At the beginning of the study (before the intervention) and 7 days after the intervention

Method of measurement

Questionnaire to measure knowledge and performance of cardiopulmonary resuscitation

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Teaching basic cardiopulmonary resuscitation in person. At this stage, all people are trained in theory and practice (mannequin) in cardiopulmonary resuscitation and how to deal with cardiac arrest victims during a 2-hour session. In order to standardize his training, the researcher uses the 2020 guidelines of the American Heart Association as a source. The participants will be given a basic cardiopulmonary resuscitation training booklet. After the intervention of the subjects, a post-test will be done one week later.

Category

Treatment - Other

2

Description

Intervention group: Teaching cardiopulmonary resuscitation virtually. At this stage, educational materials are presented in the form of using virtual channels (one-up platform) and sending videos, photos, and PDF files of educational booklets during two weeks. After the intervention of the subjects, a post-test is conducted one week. to be

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Organizational houses of the armed forces

Full name of responsible person

Hossein Baba Tabar Drazi

Street address

Faculty of Nursing, Baqiyatullah University of Medical Sciences, Nosrati Street, South Sheikh Bahai Street

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1435916471

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babatabar1343@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Bagheiat-allah University of Medical Sciences

Full name of responsible person

Hassan Abul Qasimi

Street address

Baqiyatullah University of Medical Sciences, Nosrati Street, South Sheikh Bahai Street

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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

Bagheiat-allah 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

Bagheiat-allah University of Medical Sciences

Full name of responsible person

Masoumeh Ahmadi

Position

University student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

Street address

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Masoumeh Ahmadi

Position

University student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for updating data

Contact

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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

All data is shared after de-identifying individuals

When the data will become available and for how long

Access starts 6 months after the results are published

To whom data/document is available

All people are allowed access to receive data and study documents.

Under which criteria data/document could be used

Access to the results of this study will help others to choose the most effective method of cardiopulmonary resuscitation training

From where data/document is obtainable

To receive the data, send an email to the following address ahmadimail.m@gmail.com

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

It is communicated via email.

Comments