Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of the effect of basic cardiopulmonary resuscitation training in a demonstration and structured group method on the knowledge and skills of Red Crescent volunteers

Protocol summary

Study aim

Determining and comparing the effect of cardiopulmonary resuscitation training in a structured and structured group method on the knowledge, and skills of Red Crescent volunteers

Design

The study will be a semi-experimental intervention type. The current research will include two intervention groups of cardiopulmonary resuscitation training in a demonstrative and structured group method. In this research, random number table will be used. Using the purposeful sampling method, 72 people will be selected.

Settings and conduct

This is a semi-experimental research that will be conducted as a parallel intervention on Red Crescent volunteers of Abarkouh city in 2024. No blinding was used.

Participants/Inclusion and exclusion criteria

The research community will include all volunteers who will volunteer in the Red Crescent of Abarkouh in the summer of 2023. Inclusion criteria: Membership in the Red Crescent population and willingness to participate in the study, Lack of employment in the field of nursing and emergency medicine, Minimum education of the ninth grade Exclusion criteria: participation in similar educational programs, work experience in the field of cardiopulmonary resuscitation

Intervention groups

Training in a structured group method consists of 6 stages, which are: the first stage (overview), the second stage (silent demonstrations), the third stage (show with comments), the fourth stage (oral), the fifth stage (practice), the sixth stage (group exercise). The duration of the training is expected to last about 60 minutes, and students will be given the opportunity to exchange ideas and practice in small groups for up to 60 minutes. In the demonstration training, people are divided into groups of 18 people and the same material presented in the structured group method is taught by the instructor on the mannequin in a 60-minute session.

Main outcome variables

Knowledge; Skill

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231129060221N1**
Registration date: **2023-12-18, 1402/09/27**
Registration timing: **registered_while_recruiting**

Last update: **2023-12-18, 1402/09/27**
Update count: **0**

Registration date

2023-12-18, 1402/09/27

Registrant information

Name

ismaeil abbaszadehmehrabadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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e.abbaszadeh@stu.ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-10-23, 1402/08/01

Expected recruitment end date

2023-12-22, 1402/10/01

Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparison of the effect of basic cardiopulmonary resuscitation training in a demonstration and structured group method on the knowledge and skills of Red Crescent volunteers

Public title
Comparison of the effect of basic cardiopulmonary resuscitation training in a demonstration and structured group method on the knowledge and skills of Red Crescent volunteers
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
Membership in the Red Crescent population and willingness to participate in the study Lack of employment in the field of nursing and emergency medicine Minimum education of the ninth grade
Exclusion criteria:
Participation in similar training programs Work experience in cardiopulmonary resuscitation
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **72**
Randomization (investigator's opinion)
Randomized
Randomization description
Randomization was done using random sequence generation (random number table type). A table of random numbers is a collection of numbers that are generated completely randomly without a specific pattern or order, which is in the form of a table. In order to use the table of random numbers, the researcher must first determine the direction of reading the table numbers (for example, up, down, left and right), the second assumption of the researcher is to consider the numbers for different groups (even numbers for the group A, and odd numbers for group B). Then the researcher puts his hand on one of the numbers and moves in one of the predetermined directions and records the numbers and assigns them to different groups.
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
Shahid Sadoughi University of Medical Sciences
Street address
Bahonar Square, Shahid Sadoughi Blvd., Central Building of Shahid Sadoughi University of Medical Sciences, Yazd
City
Yazd
Province
Yazd
Postal code
۸۹۱۶۹۷۸۴۷۷
Approval date
2023-06-14, 1402/03/24
Ethics committee reference number
IR.SSU.REC.1402.024

Health conditions studied

1

Description of health condition studied
The participants in this research do not have diseases and the purpose of this research will be to educate them.
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Knowledge
Timepoint
Before and after the intervention
Method of measurement
Cardiopulmonary resuscitation questionnaire

2

Description
Skill
Timepoint
Before and after the intervention
Method of measurement
Cardiopulmonary resuscitation skill checklist

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group 1: Training in a structured group method consists of 6 stages, which are: the first stage (overview), the second stage (silent demonstrations), the third stage (show with comments), the fourth stage (oral), the fifth stage (practice), the sixth stage (group exercise). The duration of the training is expected to last about 60 minutes, and students will be given the opportunity to exchange ideas and practice in small groups for up to 60 minutes.

Category
Treatment - Other

2

Description
Intervention group 2: In the demonstration training, people are divided into groups of 18 people and the same material presented in the structured group method is taught by the instructor on the mannequin in a 60-minute session.

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Abarkouh Red Crescent

Full name of responsible person
Dr. Mustafa Javadi

Street address
Imam Ali Blvd

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Yazd University of Medical Sciences

Full name of responsible person
Research Assistant of Shahid Sadougi University of Yazd

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dvc.research@ssu.ac.ir

Web page address
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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
Yazd 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
Yazd University of Medical Sciences

Full name of responsible person
Ismail Abbaszadeh

Position
Trainer

Latest degree
Master

Other areas of specialty/work
Nursery

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Person responsible for scientific inquiries

Contact

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Position
Associate professor

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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)
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
No - There is not a plan to make this available

Analytic Code
Not applicable

Data Dictionary
No - There is not a plan to make this available