

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of the seven stages response plan of CPR on non- technical skills in nursing and anesthesia students

Protocol summary

Study aim

Effect of Seven Stage Plan of CPR on Non-Technical Skills in Nursing and Anesthesiology Students

Design

The study is a semi-experimental one with a only post-test design. Sampling method is census. A total of 42 research samples were stratified and randomly assigned to both intervention and traditional groups.

Settings and conduct

This study is conducted at the Center for Clinical Skills in a Simulated Environment. First, the workshop theory section was held for both groups. Then, in the practical part of the workshop, the intervention group performs a CPR scenario in a simulation environment based on the response plan of the seven stages response plan of CPR, while simultaneously in the traditional group, this scenario is performed in the traditional hospital method. Each of the teams in the intervention group and the traditional one will be videotaped during the implementation of scenario. non-technical skills of resuscitation students after the end of the study was evaluated by 4 evaluators and the non-technical skills questionnaire and the team assessment Emergency Measure is completed.

Participants/Inclusion and exclusion criteria

Do not experience the patient's CPR There is no CPR experience in the simulation environment

Intervention groups

The intervention includes a seven-stage response plan of CPR(SSRP-CPR). The plan has seven phases: waiting, entering, resuscitation, maintaining, announcing a family, transferring and criticizing the code. In the intervention, a 4-hour workshop on a SSRP-CPR is presented and a 4-hour training workshop on the common management of CPR in hospital is provided for the traditional group.

Main outcome variables

Coordination, Communication, Awareness of Awareness, Control, Organization, Prioritization, Team atmosphere,

Compliance with the CPR Protocol, Roles of Team leader and Teamwork

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20161018030366N2**

Registration date: **2018-08-02, 1397/05/11**

Registration timing: **registered_while_recruiting**

Last update: **2018-08-02, 1397/05/11**

Update count: **0**

Registration date

2018-08-02, 1397/05/11

Registrant information

Name

Mohammad Ghaderi

Name of organization / entity

North Khorasan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 58 3229 7097

Email address

m.ghaderi@nkums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-21, 1396/11/01

Expected recruitment end date

2019-02-04, 1397/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Effect of the seven stages response plan of CPR on non-technical skills in nursing and anesthesia students

Public title
Effect of the Seven Stages Response Plan of CPR on Teamwork and Leadership Skills (non- technical skills) in Students

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Students are 6th and 5th semesters Age is between 18 and 40
Exclusion criteria:
Rescuers do not Have any Cardiopulmonary Resuscitation Experience Rescuers do not have a resuscitation experience in the simulation environment Do not have a history of severe trauma and surgery that affects the function of the individual

Age
From **18 years** old to **40 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **45**

Randomization (investigator's opinion)
Randomized

Randomization description
All undergraduate nursing and anesthesiology students of the Nursing and Midwifery Faculty of Bojnourd, who underwent a cardiopulmonary resuscitation unit, were selected through stratified sampling in two groups of traditional and intervention. The students of each discipline were considered as a class and randomly divided into two traditional groups and a seven-stage response plan using a randomized simple randomized random numbered table.

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 North Khorasan University of Medical Sciences
Street address
Sharyar Ave, Emam Ali Blvd, Deputy of Research and Technology
City
Bojnurd
Province
North Khorasan
Postal code
9417696786
Approval date
2018-06-19, 1397/03/29
Ethics committee reference number
IR.NKUMS.REC.1397.025

Health conditions studied

1

Description of health condition studied
team work and leadership skills of CPR
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
The team leader let the team know what was expected of them through direction and command
Timepoint
Immediately after studying
Method of measurement
Team Emergency Assessment Measure(Team) Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

2

Description
The team leader maintained a global perspective
Timepoint
Immediately after studying
Method of measurement
Team Emergency Assessment Measure(Team) Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

3

Description
The team communicated effectively
Timepoint
Immediately after studying
Method of measurement
Team Emergency Assessment Measure(Team) Questionnaire and Nurse Anesthetists' Non-Technical

Skills(N-ANTS)

4

Description

The team worked together to complete the tasks in a timely manner

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

5

Description

The team acted with composure and control

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

6

Description

The team anticipated potential actions

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

7

Description

The team monitored and reassessed the situation

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

8

Description

The team adapted to changing situations

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

9

Description

The team morale was positive

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

10

Description

The team prioritized tasks

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

11

Description

The team followed approved standards and guidelines

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire and Nurse Anesthetists' Non-Technical Skills(N-ANTS)

12

Description

On a scale of 1-10 give your global rating of the team's non-technical performance

Timepoint

Immediately after studying

Method of measurement

Team Emergency Assessment Measure(TEAM)
Questionnaire

13

Description

Team leader role

Timepoint

Immediately after studying

Method of measurement

Questionnaire

14

Description

Airway and Breathing Role

Timepoint

Immediately after studying

Method of measurement

Questionnaire

15

Description

Chest Compressor Role

Timepoint

Immediately after studying

Method of measurement

Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The intervention group is called the "Seven-Stage Response Plan of CPR (SSRP-CPR) Group". The number of members of each resuscitation team was 6, one of whom would be randomly selected as the team leader. The intervention was a four-hour workshop on a seven-stage response to a cardiopulmonary resuscitation response for the intervention group. In the theoretical part of the workshop, for two hours, SSRP-CPR will be taught to students as well as The American Heart Association's Advanced Adult resuscitation algorithm for 2015 will be taught to students. SSRP-CPR mainly focuses on teaching non-technical skills, including teamwork training, effective communication, coordination and collaboration, planning and organizing, and team leadership. SSRP-CPR is the process of explaining and implementing a code (having a possible cardiac arrest patient, transferring a patient to a hospital, and delivering a patient to an emergency hospital, resuscitation, etc.), sponsored by the American Heart Association Any conditions, including time, place and with any number of people, are recommended and enforceable. Then, in the practical part of the workshop for 2 hours, the CPR's teams immediately implemented the CPR's scenarios on the basis of an SSRP-CPR.

Category

Behavior

2

Description

Control group: Called the traditional group. A 4-hour workshop for cardiopulmonary resuscitation, including a theoretical part and a practical part, will be held for the group to provide first-time theoretical training on the common practice of cardiopulmonary resuscitation in the country's hospitals, including job descriptions, number and place of appointment. The members of the hospital resuscitation team, as well as the Adult Advanced Life Support algorithm for the 2015 American Heart Association, will be held for students for 2 hours. The number of members in each of the teams is 6, one of them as the team leader will be randomly selected. Of the other 5 people, one person was recruited as a Chest Compressor, two as airway and respiratory, one drug, one auxiliary Rescuer. After completing the training, the theoretical part of the workshop immediately participated in the practical part of the workshop for two hours, according to the traditional method, to practice non-technical skills (teamwork skills such as communication, coordination and leadership skills such as organization, prioritization, and control) based on CPR

scenario. After training the theoretical part of the workshop, immediately the CPR teams in the practical part of the workshop will implement a CPR Scenario for two hours in a traditional way.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Nursing School

Full name of responsible person

Dr, Mohammad Reza Armat

Street address

Shahryar Ave, Emam Ali Blvd, Nursing School.

City

Bojnurd

Province

North Khorasan

Postal code

9417696786

Phone

+98 58 3229 7097

Fax

+98 58 3229 7095

Email

nurse.info@nkums.ac.ir

Web page address

<http://nurse.nkums.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Bojnourd University of Medical Sciences

Full name of responsible person

Seyed Kaveh Hojjat

Street address

P36, Shahid Mohaghar, South Shahid Beheshti Ave,
Deputy of Research and Technology of North
Khorasan University of Medical Sciences

City

Bojnurd

Province

North Khorasan

Postal code

9414974877

Phone

+98 58 3274 2087

Email

research@nkums.ac.ir

Web page address

<http://research.nkums.ac.ir/>

Grant name

Grant code / Reference number

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

Yes
Title of funding source
Bojnourd 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
Bojnourd University of Medical Sciences
Full name of responsible person
Mohammad Ghaderi
Position
Faculty of member
Latest degree
Master
Other areas of specialty/work
Nursery
Street address
Sharyar Ave, Emam Ali Blvd, Departement of nursing
City
Bojnurd
Province
North Khorasan
Postal code
9417696786
Phone
+98 58 3229 7097
Fax
+98 58 3229 7095
Email
m.ghaderi@nkums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Bojnourd University of Medical Sciences
Full name of responsible person
Mohammad Ghaderi
Position
Faculty of member
Latest degree
Master
Other areas of specialty/work
Nursery
Street address
Sharyar Ave, Emam Ali Blvd, Departement of nursing
City

Bojnurd
Province
North Khorasan
Postal code
9417696786
Phone
+98 58 3229 7097
Fax
+98 58 3229 7095
Email
m.ghaderi@nkums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Bojnourd University of Medical Sciences
Full name of responsible person
Mohammad Ghaderi
Position
Faculty member
Latest degree
Master
Other areas of specialty/work
Nursery
Street address
Sharyar Ave, Emam Ali Blvd, Departement of nursing
City
Bojnurd
Province
North Khorasan
Postal code
9417696786
Phone
+98 58 3229 7097
Fax
+98 58 3229 7095
Email
m.ghaderi@nkums.ac.ir

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

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable