Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

The effect of using the cardiopulmonary resuscitation algorithm on the stress and satisfaction،s rate of 115 emergency staff in Shiraz

Protocol summary

Study aim

Determining the Effect of Using the Cardiopulmonary Resuscitation Operations Algorithm on the Stress and Satisfaction of Emergency Staff of Shiraz Emergency Response Center in Cardiopulmonary Resuscitation

Design

A clinical trial with a test and control group is simple randomized.

Settings and conduct

The 20 bases with the highest number of cardiopulmonary resuscitation are selected, which are divided into 10 bases as test groups and 10 other bases as a control group randomly. Illustrated algorithm prepared in sheets of appropriate size for the test group in the rear cabin of the ambulance (A3), inside the base (one on one and a half banner), on the bag of pharmaceutical equipment (A4), an ambulance front cabin (A5) And on the echo machine (A5), as well as for the control group, an unwritten and written normal algorithm is said to be the same size, and the algorithm sheets are provided at the same places.

Participants/Inclusion and exclusion criteria

Criteria for entering the study: 1) The age of the patients on whom the recovery is performed is at least 18 years. 2) Emergency technicians who perform the resuscitation operation have at least 2 years of work experience in the emergency department. Exit criteria: 1) Cardiopulmonary resuscitation operations carried out by a technician behind the ambulance.

Intervention groups

Using the illustrated algorithm of cardiopulmonary resuscitation in the intervention group and writing algorithm in the control group.

Main outcome variables

Pulmonary cardiopulmonary resuscitation algorithm consists of stages of revitalization that is provided in an illustrated manner. Staff stress is the amount of stress that the staff during the recovery process is assessed using the perceived stress questionnaire completed by the staff after the recovery operation. Surveying the satisfaction level after resuscitation by using satisfaction questionnaire.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171104037214N2**
Registration date: **2019-04-22, 1398/02/02**
Registration timing: **retrospective**

Last update: **2019-04-22, 1398/02/02**
Update count: **0**

Registration date

2019-04-22, 1398/02/02

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 4449 2153

Email address

a.azadeh@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-23, 1397/05/01

Expected recruitment end date

2018-11-22, 1397/09/01

Actual recruitment start date

2018-08-06, 1397/05/15

Actual recruitment end date

2019-03-16, 1397/12/25

Trial completion date
2019-05-10, 1398/02/20

Scientific title
The effect of using the cardiopulmonary resuscitation algorithm on the stress and satisfaction،s rate of 115 emergency staff in Shiraz

Public title
The effect of using the cardiopulmonary resuscitation algorithm on the stress and satisfaction
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
The age at which the recovery is performed is at least 18 years. Emergency technicians performing a resuscitation operation have at least 2 years of work experience in the emergency room.
Exclusion criteria:
Pulmonary cardiopulmonary resuscitation operations carried out by a technician behind the ambulance.
Age
From **18 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **80**
Actual sample size reached: **80**
Randomization (investigator's opinion)
Randomized
Randomization description
From twenty bases selected for the study were ten randomly selected as the experimental group and ten bases as control group.
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 Shahid Sadoughi University of Medical Sciences, Yazd
Street address
Bahonar Square، Central office of Shahid Sadoughi University of Medical Sciences, Yazd
City
Yazd
Province
Yazd
Postal code
7375136337
Approval date
2018-06-26, 1397/04/05
Ethics committee reference number
IR.SSU.REC.1397.044

Health conditions studied

1

Description of health condition studied
The Effect of Using the Illustrative Algorithm on Cardio-pulmonary Coronary Artery Resuscitation (ERP) on stress and satisfaction of emergency staff of 115 in the experimental group and writing algorithm in the control group
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Staff stress is the amount of stress that the staff during the recovery process is assessed using the perceived stress questionnaire completed by the staff after the recovery operation. Surveying the satisfaction level after resuscitation by using satisfaction questionnaire
Timepoint
Measuring the level of stress and satisfaction of the staff according to the questionnaires provided to them after completing the questionnaires, which should be completed immediately after any cardiovascular resuscitation.
Method of measurement
Stress measurement by perceived stress questionnaire and satisfaction with Satisfaction questionnaire, consensus questionnaire SPSQ

Secondary outcomes

empty

Intervention groups

1

Description
First intervention group: Using the Illustrated Pulmonary Heart Recovery algorithm in tabs of appropriate size for the test group in the rear cabin of the ambulance (A3), inside the base (one on one and a half banner), on the box of pharmaceutical equipment (A4), the front cabin Ambulance (A5) and on the ect. A5 machine.
Category

Other

2

Description
Second intervention group: Unusual and written normal algorithm in tabs of appropriate size in the rear cabin of the ambulance (A3), inside the base (one on one and a half banner), on the box of pharmaceutical equipment (A4), front cabin Ambulance (A5) and on the ect. A5 machine.
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Emergency stations of Shiraz
Full name of responsible person
Abdol reza azadeh
Street address
First Floor,Bahari Building 1,Eastern Sinai Street, Janbazan Boulevard,
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Fars
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7375136337
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Email
a.azadeh@ssu.ac.ir

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Yazd University of Medical Sciences
Full name of responsible person
Dr. Massoud Mirzaei
Street address
Bahonar Square, Central Building of Yazd University of Medical Sciences
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Yazd
Postal code
8916189165
Phone
+98 35 3824 1751
Email
azadehreza115@gmail.come
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
Zohreh Kalani
Position
Associate Professor
Latest degree
Master
Other areas of specialty/work
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Person responsible for updating data

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Latest degree
Bachelor
Other areas of specialty/work
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a.azadeh@ssu.ac.ir

Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available
Justification/reason for indecision/not sharing IPD
Because I am a graduate student and I do not plan to publish it right now.
Study Protocol
No - There is not a plan to make this available
Statistical Analysis Plan
No - There is not a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable