

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Sep 2026

A comparison of the effect of teaching cardiopulmonary resuscitation (CPR) by using modified team based learning (MTBL) and traditional methods on knowledge and skills of nursing students

Protocol summary

Summary

Introduction: Deficiency in medical skill and knowledge of the personnel in CPR is considered as a factor with undesirable consequences in the victims of heart attack. TBL is a new educational strategy which is remarkable for medical educational societies. The aim of this study is to compare the effect of CPR education based on MTBL and traditional method. Methodology: Statistical society was considered of all nursing students which 50 third year nursing students were chose by available sampling and were divided randomly in two experimental and control groups. In the experimental group, CPR was teaching by MTBL method and traditional method in the control group. The materials which were used for data collection are the knowledge assessment questioner and the checklist of CPR skill assessment. The results were analyzed by SPSS.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013012612287N1**

Registration date: **2013-11-01, 1392/08/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-11-01, 1392/08/10

Registrant information

Name

zhaleh babanazari

Name of organization / entity

Shiraz University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Shiraz University of Medical Sciences

Expected recruitment start date

2012-12-05, 1391/09/15

Expected recruitment end date

2013-03-05, 1391/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison of the effect of teaching cardiopulmonary resuscitation (CPR) by using modified team based learning (MTBL) and traditional methods on knowledge and skills of nursing students

Public title

the effect of teaching of cardiopulmonary resuscitation on knowledge and skills of students

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: having no previous experience of CPR; The participant shouldn't work at hospital or the other medical centers during or before research and hadn't participated at similar studies. Exclusion criteria: not participating at research; Absenting at educational

meetings.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description**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 Shiraz University of Medical Sciences

Street address

Shiraz- Zand Street - Central Medical Building - Seventh Floor

City

Shiraz

Postal code**Approval date**

2012-12-05, 1391/09/15

Ethics committee reference number

CT91-6352

Health conditions studied**1****Description of health condition studied**

Teaching of cardiopulmonary resuscitation (CPR)

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Students' knowledge of Cardiopulmonary resuscitation

Timepoint

Immediately after training

Method of measurement

Cardiopulmonary resuscitation knowledge questionnaire

2**Description**

Skills students in Cardiopulmonary resuscitation

Timepoint

Immediately after training

Method of measurement

Cardiopulmonary resuscitation skills assessment checklist

Secondary outcomes**1****Description**

Cardiopulmonary resuscitation knowledge retention

Timepoint

3 months after Cardiopulmonary resuscitation training

Method of measurement

Cardiopulmonary resuscitation knowledge questionnaire

2**Description**

Cardiopulmonary resuscitation skill retention

Timepoint

3 months after Cardiopulmonary resuscitation training

Method of measurement

Cardiopulmonary resuscitation skills checklist

Intervention groups**1****Description**

Cardiopulmonary resuscitation training by using traditional method in the control group

Category

Other

2**Description**

Cardiopulmonary resuscitation training by using modified team based learning (MTBL) method in the intervention group

Category

Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Fatima School of Nursing and Midwifery

Full name of responsible person

Parisa Mansoori
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Sponsors / Funding sources

1

Sponsor

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Shiraz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shiraz University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty