

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 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

##### Country

Iran (Islamic Republic of)

##### Phone

+98 71 1647 4258

##### Email address

babanazari@sums.ac.ir

##### 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  
**Street address**  
Namazi Square  
**City**  
Shiraz

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**  
Shiraz University of Medical Sciences  
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Kambiz Eskandari  
**Street address**  
Seventh Floor, Building Medical Center, Zand Street,  
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**City**  
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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## Person responsible for updating data

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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*