

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 Jun 2026

### Effect of Capnography Feedback During CPR on Retention of Psychomotor Skills of Rescuers

#### Protocol summary

##### Summary

This study is a quasi-experimental study with the aim of determine the effect of capnography feed back during Cardiopulmonary resuscitation on retention of psychomotor skills of rescuers including chest compressions, ventilation and interruptions during CPR in four stages before, during, and three months after the capnography feedback at Ghaem hospital in mashhad. Inclusion criteria are patients with endotracheal tube and laryngeal air way and Exclusion criteria are patient with cardiac arrest due pulmonary embolism convenience sampling with 35 participants will be chosen . First Before the intervention, the Psychomotor skill of cardiopulmonary resuscitation skills controlled by check list of Psychomotor skill. In the next stage Rescuers will use capnography in all of cardiopulmonary resuscitations then two months and three months after this, while Rescuers will not use of capnography ,Psychomotor skill of cardiopulmonary resuscitation will be controlled by the same check list

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015061422730N1**  
Registration date: **2015-08-01, 1394/05/10**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2015-08-01, 1394/05/10

##### Registrant information

##### Name

Seyed Kazem Ahmadi Maybodi

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 51 3608 3286

##### Email address

ahmadimk1@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Mashhad University of Medical Sciences

##### Expected recruitment start date

2015-03-16, 1393/12/25

##### Expected recruitment end date

2015-07-16, 1394/04/25

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of Capnography Feedback During CPR on Retention of Psychomotor Skills of Rescuers

##### Public title

Effect of Feedback on Retention of Cardiopulmonary resuscitation skills

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: patients with laryngeal airway and endotracheal tube. exclusion criteria: patients with cardiac arrest due to massive emboly

##### Age

No age limit

##### Gender

Both

## Phase

N/A

## Groups that have been masked

No information

## Sample size

Target sample size: 35

## Randomization (investigator's opinion)

N/A

## Randomization description

## Blinding (investigator's opinion)

Single blinded

## Blinding description

## Placebo

Not used

## Assignment

Single

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Mashhad University of Medical Sciences

##### Street address

Daneshgah Street, Ghoraisly Building

##### City

Mashhad

##### Postal code

91375-345

#### Approval date

2015-03-14, 1393/12/23

#### Ethics committee reference number

930938

## Health conditions studied

### 1

#### Description of health condition studied

cardiac arrest

#### ICD-10 code

I46.0

#### ICD-10 code description

Cardiac arrest with successful resuscitation

## Primary outcomes

### 1

#### Description

Chest compression skill

#### Timepoint

Before Intervention,during Intervention,after two month and,three month after Intervention

#### Method of measurement

Pshycomotor skills check list

### 2

#### Description

Ventilation SKILL

#### Timepoint

beforeIntervention,duringIntervention,after two month and,after three month Intervention

#### Method of measurement

pshycomotor skills check list

### 3

#### Description

PAUSE TIME

#### Timepoint

beforeIntervention,duringIntervention,after two month and,after three month Intervention

#### Method of measurement

pshycomotor skills check list

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Rescuers for a month during the cardiopulmonary resuscitation,will use capnography. after that , Rescuers will not use of capnography until three month

#### Category

Behavior

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Ghaem Educational, Research and Treatment Center(AG)

##### Full name of responsible person

Seyed Kazem Ahmadi Maybodi

##### Street address

Ghaem Hospital-Dr. Shariati Square, beginning of Ahmadabad Avenue

##### City

Mashhad

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Full name of responsible person

Mohsen Tafaghodi

##### Street address

Daneshgah Street, Ghoraisly Building

**City**  
Mashhad

**Grant name**

**Grant code / Reference number**

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

**Title of funding source**  
Mashhad 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

**Name of organization / entity**  
Mashhad University of Medical Sciences

**Full name of responsible person**  
Seyed Kazem Ahmadi Maibody

**Position**  
MSc of Adult Critical Care Nursing

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

### Contact

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**Full name of responsible person**  
Hamid CHamanzari

**Position**

Master of Nursing

**Other areas of specialty/work**

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## Person responsible for updating data

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Mashhad University of Medical Sciences

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**Position**  
MSC of Adult critical care Nursing student

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**Web page address**

## 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*