

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the Effect of IAC-CPR and Current CPR Methods on ETCO2 and 24 Hour Survival of Cardiopulmonary Arrest Patient

Protocol summary

Summary

The purpose of this study is comparison of the effect of Interposed Abdominal Compression Cardiopulmonary resuscitation and current Cardiopulmonary resuscitation methods on End Tidal CO2 and 24 Hour survival of cardiopulmonary arrest patient. Inclusion criteria include confirmation of cardiopulmonary arrest Age between eighteen to eighty-five years, Existence of endotracheal tube, No recent abdominal surgery No pregnancy exclusion criteria: Suspected pregnancy Inability to intubation.the study population included patients who suffered from cardiac arrest in Ghaem Hospital of Mashhad. Target sample size is 80 cpr in both groups that in control group current Cardiopulmonary resuscitation and in intervention group Interposed Abdominal Compression CardioPulmonary resuscitation is performed. It is expected that Interposed Abdominal Compression Cardiopulmonary resuscitation could better the End Tidal CO2 and 24 hour survival of cardiac arrest patients.

General information

Acronym

IAC-CPR = Interposed abdominal compression cardiopulmonary rescucitation ETCO2 = End Tid

IRCT registration information

IRCT registration number: **IRCT2014010216033N1**
Registration date: **2014-01-22, 1392/11/02**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-01-22, 1392/11/02

Registrant information

Name

Ali Movahedi

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Mashhad University of Medical Science

Expected recruitment start date

2013-12-22, 1392/10/01

Expected recruitment end date

2014-02-04, 1392/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the Effect of IAC-CPR and Current CPR Methods on ETCO2 and 24 Hour Survival of Cardiopulmonary Arrest Patient

Public title

Effect of interposed abdominal compression cardiopulmonary resuscitation on end tidal co2 and 24 Hour Survival of Cardiopulmonary Arrest Patient

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: confirmation of cardiopulmonary arrest; nonTraumatic cardiopulmonary arrest; Age between eighteen to eighty-five years; Existence of endotracheal tube; No history of abdominal aortic

aneurysm; No recent abdominal surgery; No pregnancy; exclusion criteria: Suspected pregnancy; Inability to intubation; Return of spontaneous circulation before beginning of resuscitation

Age

From **18 years** old to **85 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **80**

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

Research Council of Mashhad University of Medical Sciences

Street address

Mashhad - University Avenue - Building Qureshi -
Research Council of Mashhad University of Medical Sciences

City

Mashhad

Postal code

Approval date

2013-10-09, 1392/07/17

Ethics committee reference number

920717

Health conditions studied

1

Description of health condition studied

cardiac arrest

ICD-10 code

I46

ICD-10 code description

Cardiac Arrest

Primary outcomes

1

Description

End Tidal CO2

Timepoint

During the intervention

Method of measurement

Capnograph

2

Description

Return of spontaneous Circulation

Timepoint

After the intervention

Method of measurement

check of pulse and blood pressure

3

Description

24 hours survival

Timepoint

24 hour after intervention

Method of measurement

By questionnaire

Secondary outcomes

1

Description

side effect

Timepoint

During and 24 hours after intervention

Method of measurement

By observation and examination

Intervention groups

1

Description

in intervention group after confirmation of cardiac arrest and endotracheal intubation Interposed Abdominal Compression Cardiopulmonary Resuscitation is performing.

Category

Treatment - Other

2

Description

in control group after confirmation of cardiac arrest and endotracheal intubation current Cardiopulmonary Resuscitation is performing.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Clinical research training center of Ghaem

Full name of responsible person

kazem ahmadi meybodi

Street address

Mashhad - St. Ahmedabad - Ghaem Hospital.

City

Mashhad

Mashhad - Doktora Cross - School of Nursing and Midwifery

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Phone

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malekzadehj@mums.ac.ir

Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Council of Mashhad University of Medical Sciences

Full name of responsible person

dr mohsen tafaghodi

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Mashhad - University Avenue - Building Qureshi -
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Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Council of 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

javad malekzadeh

Position

Faculty members working in Mashhad University of Medical Sciences

Other areas of specialty/work

Street address

Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

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Position

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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