

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jul 2026

Investigation the effect of epinephrine in combination with prednisolone on neurological complications in patients with cardiopulmonary arrest

Protocol summary

Summary

This cross-sectional study in non-random sampling that was done in the Emergency Department of Imam Reza hospital of Mashhad University of Medical Sciences from the July 2015 to March 2016 for a period of 9 months, on 50 CPR patients due to cardiac arrest. Aim of this study is to investigate the effect of epinephrine in combination with prednisolone compared with epinephrine alone on neurological complications in patients with cardiopulmonary arrest, accordingly, for a group epinephrine will be used in combination with methylprednisolone and for the else will be used alone. Patients who are expired before taken to hospital and patients who have just suffered a respiratory arrest without cardiac arrest will be excluded. Information collected on the Utstein-style which includes items such as patient demographic characteristics (such as age, gender), etiology and clinical picture presentation and cardiopulmonary arrest, time and date, location, interventions and actions before and after cardiac arrest, interval interventions, and establish circulation (ROSC) return of spontaneous circulation and CPR final outcome. The neurological outcomes for all patients considered to be revived by CPC Score in the first 24 hours and one week later.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015060822623N1**
Registration date: **2015-08-15, 1394/05/24**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-08-15, 1394/05/24

Registrant information

Name

esmat seyedi

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 3502 6657

Email address

seyedie921@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mashhad University of Medical Sciences

Expected recruitment start date

2015-06-22, 1394/04/01

Expected recruitment end date

2016-03-19, 1394/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation the effect of epinephrine in combination with prednisolone on neurological complications in patients with cardiopulmonary arrest

Public title

Efficacy of epinephrine in combination with prednisolone compared with epinephrine alone in patients with cardiopulmonary arrest

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: all patients with cardiopulmonary arrest that CPR done for them Exclusion criteria: patients

that was died before receive to hospital; patient with just pulmonary arrest without heart arrest; in patient that infusion was not possible

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Not 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**

Mashhad University of Medical Sciences

Street address

Ethics Committee, Ghoreishi building, Daneshgah ave

City

mashhad

Postal code**Approval date**

2015-03-02, 1393/12/11

Ethics committee reference number

930178

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

Cardiopulmonary arrest

ICD-10 code

I26, I27,

ICD-10 code description

Pulmonary heart disease and diseases of pulmonary circulation

Primary outcomes**1****Description**

CPR outcome

Timepoint

After the Cardiopulmonary recession

Method of measurement

Survive or expire

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

Neurological complications

Timepoint

24 hour and one week after CPR

Method of measurement

By CPC score

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

We administer epinephrine in combination with 40 mgr intravenous prednisolone for the first group of patients with cardiopulmonary arrest

Category

Treatment - Drugs

2**Description**

We administer just epinephrine in second group of patients.

Category

Treatment - Drugs

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

Emam Reza Hospital

Full name of responsible person

dr. Esmat Seyedi

Street address

dr.Shariaati Square

City

Mashhad

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Mashhad University of Medical Sciences

Full name of responsible person

Vice chancellor of research, Dr. Mohsen Tafaghodi

Street address

Daneshgah ave, Ghoreishi building, vice chancellor of research

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

Dr. Esmat Seyedi

Position

MD, Resident of Emergency Medicine

Other areas of specialty/work**Street address**

Department of Emergency Medicine, Emam Reza Hospital

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Department of Emergency Medicine, Mashhad University of Medical Sciences

Full name of responsible person

Dr.Ehsan Bolvardi

Position

Emergency medicine specialist, assistant professor of emergency medicine

Other areas of specialty/work**Street address**

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Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Mashhad University of Medical Sciences

Full name of responsible person

Dr.Esmat seyedi

Position

MD, Resident of Emergency Medicine

Other areas of specialty/work**Street address**

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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