

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison between Vasopressin and Epinephrine in neurologic survival in prehospital patient with cardiopulmonary arrest by serum level of s100b

Protocol summary

Summary

The current study aims to investigate the efficiency and comparison of vasopressin and epinephrine in individual's, selected as randomized clinical trial, referring to pre-hospital emergencies in Tehran. However, for evaluation the neurological status of patients, their sera were subjected to be examined by S100B after CPR. In one hand, the inclusion criteria will be the cardiopulmonary arrest, lack of carotid pulse, age above 18 years, and non-traumatic. On the other hand, the exclusion criteria will be the history of steroids use, pregnancy, and death at the entrance to the hospital. For each group, 50 samples will be collected from patients with arrest out of the hospital. According to the America Heart Association 2010 guidelines, vasopressin or epinephrine will be administered randomly. Then, the S100B in sera will be evaluated after 24 hours.

General information

Acronym

CPR.OHCA

IRCT registration information

IRCT registration number: **IRCT2014060717891N2**

Registration date: **2015-02-08, 1393/11/19**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-02-08, 1393/11/19

Registrant information

Name

Nader Tavakoli

Name of organization / entity

Iran University Of Medical Science

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2014-06-20, 1393/03/30

Expected recruitment end date

2015-02-20, 1393/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between Vasopressin and Epinephrine in neurologic survival in prehospital patient with cardiopulmonary arrest by serum level of s100b

Public title

Comparison between Vasopressin and Epinephrine in Cardiopulmonary Resuscitation

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion: cardiopulmonary arrest; no carotid pulse; age > 18 ; non-traumatic exclusion: corticosteroid therapy; pregnancy ; death in hospital

Age

From **17 years** old

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **100**

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
Iran University of Medical Sciences

Street address
Tehran.Hemmat highway

City
Tehran

Postal code

Approval date
2014-04-29, 1393/02/09

Ethics committee reference number
93494/105/3

Health conditions studied

1

Description of health condition studied
Cardiopulmonary arrest

ICD-10 code
I46.0

ICD-10 code description
Cardiac arrest with successful resuscitation

Primary outcomes

1

Description
Neurologic outcome post cpr

Timepoint
24 hour post cpr

Method of measurement
s100b neuropeptid

Secondary outcomes

1

Description
Roc percentage

Timepoint
18 Month

Method of measurement
Observational

Intervention groups

1

Description
Intervention group: Vasopressin, 40 unit, Instead first or second dose of Epinephrin, Intravenous, sampling for S100B checking 24 hour later

Category
Treatment - Drugs

2

Description
Control group : Epinephrine 1mg, from start CPR, every 3_5 minutes , Intravenous , Sampling for S100B checking 24 hour later

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Tehran Prehospital Emergency

Full name of responsible person
Dr.Haghi

Street address

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Exir Company

Full name of responsible person
DR.Mostafavi

Street address
Tehran, Behambari Alley, Zartosht Street

City
Tehran

Grant name

Grant code / Reference number

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

Yes
Title of funding source
Exir Company
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
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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