

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

24 Jul 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)

##### Phone

+98 21 8891 5410

##### Email address

tavakoli.n@iums.ac.ir

##### 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**  
Iran University of Medical Sciences  
**Full name of responsible person**  
Nasim Ghafourian  
**Position**  
Emergency Medicine Resident  
**Other areas of specialty/work**  
**Street address**  
Tehran.Satarkhan,Hazrat Rasoul Hospital  
**City**  
Tehran  
**Postal code**  
**Phone**  
+98 21 4446 3965  
**Fax**  
**Email**  
nasim.gh.91@gmail.com  
**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**  
Iran University of Medical Sciences  
**Full name of responsible person**  
Nasim Ghafourian  
**Position**  
Emergency Medicine Resident  
**Other areas of specialty/work**

**Street address**  
Teharan, Satarkhan, Hazrat Rasoul Hospital  
**City**  
Tehran  
**Postal code**  
**Phone**  
+98 21 4446 3965  
**Fax**  
**Email**  
dr\_negar2006@yahoo.com  
**Web page address**

## Person responsible for updating data

### Contact

**Name of organization / entity**  
Iran University of Medical Sciences  
**Full name of responsible person**  
Nasim Ghafourian  
**Position**  
Resident  
**Other areas of specialty/work**  
**Street address**  
Tehran, Satarkhan, Hazrat Rasoul Hospital  
**City**  
Tehran  
**Postal code**  
**Phone**  
+98 21 4446 3965  
**Fax**  
**Email**  
nasim.gh.91@gmail.com  
**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*