

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Corticosteroid level in victims after successful cardiac arrest

Protocol summary

Summary

Objectives: Cardiac arrest is one of the manifestations of patients in emergency rooms. They are managed according to the last AHA guideline with epinephrine, anti arrhythmic drugs or defibrillation. Some studies showed that cortisol level be decreased during cardiac arrest and after resuscitation. This study wants to evaluate corticosteroid level in victims after successful cardiac arrest. Study design and methods: An observation and intervention study blood sample was given from patients with cardiac arrest to measure the level of cortisol. If CPR was successful and return of spontaneous circulation happened, synthetic ACTH would be injected and cortisol level be re-checked after 30 minutes, 1 and 24 hours later. Inclusion criterion: Patients with age more than 18 with cardio-pulmonary arrest Exclusion criterion: Patients who use intravenous or oral Corticosteroid Intervention: Intra venous injection of synthetic ACTH Basic outcome measure: Survival after 24 hours according of the level of cortisol

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111092337N5**

Registration date: **2011-11-14, 1390/08/23**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-11-14, 1390/08/23

Registrant information

Name

Mani Mofidi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2011-10-23, 1390/08/01

Expected recruitment end date

2012-04-20, 1391/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Corticosteroid level in victims after successful cardiac arrest

Public title

Corticosteroid level in victims after successful cardiac arrest

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion: Patients with age more than 18 with cardio-pulmonary arrest Exclusion criterion: Patients who use intravenous or oral Corticosteroid

Age

From **18 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research center of Tehran University of Medical Sciences

Street address

Central Building of Tehran University of Medical Sciences, Ghods st, Keshavarz blvd, Tehran, Iran

City

Tehran

Postal code

Approval date

2011-05-31, 1390/03/10

Ethics committee reference number

14995

Health conditions studied

1

Description of health condition studied

Decrease in cortisol level after cardiac resuscitation

ICD-10 code

E27.4

ICD-10 code description

Other and unspecified adrenocortical insufficiency

Primary outcomes

1

Description

Elevation in cortisol level

Timepoint

30 minutes, 1 and 24 hours later

Method of measurement

Venous blood sample

Secondary outcomes

1

Description

Survival after 24 hours

Timepoint

Continuous

Method of measurement

Cardiac monitoring and check pulse

Intervention groups

1

Description

Cosyntropin injection after successful resuscitation

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasoul Akram hospital

Full name of responsible person

Mani Mofidi. M.D.

Street address

Emergency department of Rasool Akram hospital, Niayesh St, Sattar Khan Ave, Tehran, Iran

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research center of Tehran University of Medical Sciences

Full name of responsible person

Mrs Golband

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Ghods st, Keshavarz blvd, Tehran, Iran

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research center of Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

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Position

Emergency Medicine physician

Other areas of specialty/work

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Other areas of specialty/work

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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