

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of Amiodarone and Lidocaine in return of spontaneous circulation in patients with ventricular fibrillation / pulseless ventricular tachycardia in CPR

Protocol summary

Summary

Objective: Clinical trial of Comparison Amiodarone and Lidocaine in return of spontaneous circulation in patients with ventricular fibrillation / pulseless ventricular tachycardia in CPR. Design of the study: randomization using random permuted blocks, convenience sampling, one-blinded, single-center, phase II trial. Study population: all patients with cardiopulmonary arrest having inclusion criteria. Main inclusion criteria: patients with ventricular tachycardia without a pulse and ventricular fibrillation resistant to three shocks that after the second shock have received a period of epinephrine intravenously; patients with appropriate venous access; patients who are hospitalised and underwent non-traumatic arrest. Main exclusion criteria: age under 18 years; ventricular fibrillation that not different secondary to the previous rhythm; lidocaine or amiodarone cases have already been opened. Sample size: 200. Interventions: First group: administration of amiodarone 300 mg in 30 mL of normal saline rapidly and if previous rhythm continued after 5 minutes then administration of other 150 mg of amiodarone; second group: administration of lidocaine 1.5 mg per kg per hour if previous rhythm continued after 10 minutes then administration 75 mg per kg per hour of lidocaine. Intervention time: after two cycles of CPR. Outcomes: return of spontaneous circulation by checking the blood pressure and pulse.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017041733480N1**

Registration date: **2017-05-14, 1396/02/24**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-05-14, 1396/02/24

Registrant information

Name

Mehdi Nedadahande

Name of organization / entity

Zahedan University of Medical Sciences

Country

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Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Zahedan University of Medical Sciences

Expected recruitment start date

2016-06-04, 1395/03/15

Expected recruitment end date

2017-06-05, 1396/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Amiodarone and Lidocaine in return of spontaneous circulation in patients with ventricular fibrillation / pulseless ventricular tachycardia in CPR

Public title

Comparison study of amiodarone and lidocaine effect in cardiopulmonary resuscitation patients

Purpose

Treatment

Inclusion/Exclusion criteria

Main inclusion criteria: patients with ventricular tachycardia without a pulse and ventricular fibrillation resistant to three shocks that after the second shock have received a period of epinephrine intravenously; patients with appropriate venous access; patients who are hospitalised and underwent non-traumatic arrest. Main exclusion criteria: age under 18 years; ventricular fibrillation that not different secondary to the previous rhythm; lidocaine or amiodarone cases have already been opened.

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Zahedan University of Medical Sciences

Street address

Ethics Committee of Zahedan University of Medical Sciences, Zahedan University of Medical Sciences, Dr.Hesabi Square, Zahedan

City

Zahedan

Postal code

Approval date

2016-05-21, 1395/03/01

Ethics committee reference number

IR.ZAUMS.REC.1395.30

Health conditions studied

1

Description of health condition studied

Cardiopulmonary resuscitation

ICD-10 code

I46, I46.0

ICD-10 code description

Cardiac arrest

Primary outcomes

1

Description

Return of spontaneous circulation

Timepoint

During resuscitation

Method of measurement

Pulse and blood pressure measurement

Secondary outcomes

empty

Intervention groups

1

Description

First group: administration of amiodarone 300 mg in 30 mL of normal saline rapidly and if previous rhythm continued after 5 minutes then administration of other 150 mg of amiodarone

Category

Treatment - Drugs

2

Description

Second group: administration of lidocaine 1.5 mg per kg per hour if previous rhythm continued after 10 minutes then administration 75 mg per kg per hour of lidocaine

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali-ebn Abi Taleb Hospital, Zahedan

Full name of responsible person

Mehdi Nedadahande

Street address

Operation room, Zahedan Ali-ebn Abi Talib Hospital, Salamat Blvd, Dr.Hesabi Sq., Zahedan

City

Zahedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Zahedan University of Medical Sciences

Full name of responsible person

Mohsen Taheri

Street address

Vice chancellor for research, Zahedan University of Medical Sciences, Zahedan

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Zahedan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Mehdi Nedadahande

Position

Anesthesiology Residence

Other areas of specialty/work

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Cardiac Anesthesia Fellowship

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