

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of effectiveness of nebulized Ketamin in treatment of asthma attack.

Protocol summary

Summary

Objectives: Evaluation of effectiveness of nebulized Ketamin in treatment of asthma attack. Design: Double blind randomized clinical trial Setting and conduct: 63 patients were put randomly in three groups, First group undergo nebulized Combivent, Second group undergo 25 mg of nebulized Ketamin and Combivent. Third group undergo 50 mg of nebulized Ketamin and Combivent. The patients undergo spirometry and pulse oximetry and check of pulse rate and respiratory rate initially and 30, 60 and 120 minutes later. Inclusion criteria: 63 patients between 18 and 65 years old in acute asthma attack going to Rasoul Akram , Firoozgar, Haftom Tir hospital, who do not have the exclusion criteria. Exclusion criteria: patients younger than 18 years old and older than 65 years old; Ischemic heart disease; Pneumothorax; Severe respiratory distress with cyanosis or decreased level of consciousness; Pregnancy. Interventions: 25 mg of nebulized Ketamin and Combivent; 50 mg of nebulized Ketamin and Combivent; nebulized Combivent. Main outcome measures: Changes in FEV1 in respirometry, Heart rate, Respiratory rate, Pulse oximetry.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015052922468N1**

Registration date: **2016-04-03, 1395/01/15**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-04-03, 1395/01/15

Registrant information

Name

Mohammadreza Ghassemi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6650 2040

Email address

ghassemi.mr@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2014-08-23, 1393/06/01

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

Evaluation of effectiveness of nebulized Ketamin in treatment of asthma attack.

Public title

Evaluation of effectiveness of nebulized Ketamin in treatment of asthma attack.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 63 patients between 18 and 65 years old in acute asthma attack going to Rasoul Akram , Firoozgar, Haftom Tir hospital, who do not have the exclusion criteria. Exclusion criteria: patients younger than 18 years old and older than 65 years old; Ischemic heart disease; Pneumothorax; Severe respiratory distress

with scyanosis or decreased level of consciousness;
Pregnancy.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **63**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic commity of Iran University of Medical Sciences

Street address

Hemmat highway

City

Tehran

Postal code

1449614535

Approval date

2014-08-10, 1393/05/19

Ethics committee reference number

105/2240/93/3

Health conditions studied

1

Description of health condition studied

Asthma attack

ICD-10 code

J46

ICD-10 code description

اسم حاد شدید

Primary outcomes

1

Description

FEV1

Timepoint

Minutes 0,30,60,120

Method of measurement

By Spirometry

2

Description

Heart rate

Timepoint

Minutes 0, 30, 60, 120.

Method of measurement

Counting heart rate in one minute

3

Description

Respiratory rate

Timepoint

Minutes 0, 30, 60, 120.

Method of measurement

Counting respiratory rate in one minute

Secondary outcomes

1

Description

Change in consiousness

Timepoint

Minutes 0, 30, 60, 120

Method of measurement

physical exam

2

Description

Diplopia

Timepoint

Minutes 0, 30, 60, 120

Method of measurement

physical exam

Intervention groups

1

Description

50 mg of nebulized Ketamine and Combivent is administered to the first group.

Category

Treatment - Drugs

2

Description

25 mg of nebulized Ketamin and Combivent is administered to the second group.

Category

Treatment - Drugs

3

Description

Nebulized Combivent is administered to the third group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasoul Akram hospital

Full name of responsible person

Dr.Gelareh Ghaffarpour

Street address

Niayesh st., Sattarkhan st.

City

Tehran

2

Recruitment center

Name of recruitment center

Firuzgar hospital

Full name of responsible person

Dr. Gelareh Ghaffarpour

Street address

valiasr square, Behafarin street.

City

Tehran

3

Recruitment center

Name of recruitment center

Haftom Tir Hospital

Full name of responsible person

Dr.Gelareh Ghaffarpour

Street address

Shahr Rey, Rajaei street.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Iran University of Medical Sciences.

Full name of responsible person

Ms. Hossein Mardi

Street address

Hemmat highway

City

Tehran

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, Iran 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

Rasoul Akram hospital

Full name of responsible person

Dr.Gelareh Ghaffarpour

Position

Emergency medicine resident

Other areas of specialty/work

Street address

Niayesh st, Sattarkhan st.

City

Tehran

Postal code

Phone

+98 21 6652 5327

Fax

Email

gelareh.ghaffarpour@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Rasoul Akram Hospital

Full name of responsible person

Dr.Mani Mofidi

Position

Assistant professor

Other areas of specialty/work

Street address

Niayesh St., Sattarkhan St.

City

Tehran

Postal code

Phone

+98 21 6652 5327

Fax

Email

manimofidi@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Rasoul Akram hospital

Full name of responsible person

Dr.Gelareh Ghaffarpour

Position

Emergency medicine resident

Other areas of specialty/work

Street address

Niayesh St, Sattarkhan St.

City

Tehran

Postal code

Phone

+98 21 6652 5327

Fax

Email

gelareh.ghaffarpour@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