

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Comparison of the efficacy of Nebulized Salbutamol and Furosemide versus Salbutamol alone on Clinical Severity and Peak Expiratory Flow Rate in Acute Reactive Airway Disease

Protocol summary

Summary

This study aim to Compare the efficacy of Nebulized Salbutamol and Furosemide versus Salbutamol alone on Clinical Severity and Peak Expiratory Flow Rate in Acute Reactive Airway Disease. Eligible 18-55 year old Patients with reactive airway disease(RAD) were randomly divided into intervention and control groups .Patients received,5 mg of salbutamol and 40 mg of furosemide nebulization in intervention group and 5 mg of salbutamol and 2cc of distilled water nebulization in control group.Severity of the RAD was estimated before intervention and 45 minutes of intervention in both.Peak expiratory flow meter(PEFR) was estimated before intervention and at 15, 30 and 45 minutes later.Finally,two groups were compared in terms of the severity of the RAD and PEFR before and at mentioned time after intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201201272782N2**

Registration date: **2013-08-18, 1392/05/27**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-08-18, 1392/05/27

Registrant information

Name

Kambiz Masoumi

Name of organization / entity

Ahvaz Jundishapur University of Medical Science

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Private

Expected recruitment start date

2012-04-04, 1391/01/16

Expected recruitment end date

2013-03-19, 1391/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the efficacy of Nebulized Salbutamol and Furosemide versus Salbutamol alone on Clinical Severity and Peak Expiratory Flow Rate in Acute Reactive Airway Disease

Public title

furosemide nebulization efficacy in acute reactive airway disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:Patients 18-55 years old with clinical manifestation of acute reactive airway disease presenting in emergency department Exclusion criteria:Onset of symptoms more than 10 hours;smoking more than 10 pack/year; associated acute medical problem; pregnancy; nebulization with B-agonist during

last hours.

Age

From **18 years** old to **55 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ahvaz Jundishapur University of Medical Sciences

Street address

Ground Floor, IT & Research assistance centre,
College complex

City

Ahvaz

Postal code

61357-15794

Approval date

2011-06-27, 1390/04/06

Ethics committee reference number

ETH-329

Health conditions studied

1

Description of health condition studied

Acute Reactive Airway Disease

ICD-10 code

J45

ICD-10 code description

chronic obstructive pulmonary disease

Primary outcomes

1

Description

Acute Reactive Airway Disease Severity

Timepoint

Before and 45 minutes after intervention

Method of measurement

American Thoracic Society definition

2

Description

Peak Expiratory Flow Rate

Timepoint

Before and 15,30 and 45 minutes after intervention

Method of measurement

Peak flow meter

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: nebulization of 5 mg salbutamol and 40 mg furosemide for 15 minutes.

Category

Treatment - Drugs

2

Description

Control: nebulization of 5 mg salbutamol and 2 cc sterile water for 15 minutes

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Kambiz Masoumi

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Emergency Medicine Department, Emergency Ward,
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

Mostafa Fegghi(Deputy Director of Research)

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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

Ahvaz Jundishapur 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**

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Fax**Email****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*