

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Sep 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)

##### Phone

+98 61 1222 9166

##### Email address

kami\_masoumi@ajums.ac.ir

##### 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 recative airway disease presenting in emergency department Exclsion 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 furesmide 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

**Street address**  
Emergency Medicine Department, Emergency Ward,  
Imam Khomeini Hospital, Azadegan Avenue

**City**  
Ahvaz

## Sponsors / Funding sources

### 1

**Sponsor**

**Name of organization / entity**  
Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Mostafa Fegghi(Deputy Director of Research)

**Street address**

Ground Floor, IT & Research assistance centre,  
College complex

**City**

Ahvaz

**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**

Ahvaz Jundishapur University of Medical Science

**Full name of responsible person**

Kambiz Masoumi

**Position**

Emergency Medicine specialist, assistant professor

**Other areas of specialty/work****Street address**

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**Position**

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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*