

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

A comparison between nebulized furosemide and salbutamol on dyspnea improvment in chronic obstructive pulmonary disease patients reffered to shahid beheshti hospital

Protocol summary

Summary

This study desined to evaluate the effect of nebulized furosemide on dyspnea in chronic obstructive pulmonary disease. Inclusion criteria are patients with chronic obstructive pulmonary disease who had 40 year old or more. Exclusion criteria are advanced heart disease and lung fibrosis.90 patients with chronic obstructive pulmonary disease has been studied. These patients fall into two group of patients who receive salbutamol and furosemide as nebulizer. One group receives 40 mg of furosemide as nebulizer for 7 minutes that the time needed for its nebulization. Other group receives 5 mg of salbutamol as nebulizer for 5 minutes that the time is needed forb its nebulization.Both of them perform in one day. Dyspnea is assessed after each nebulization as primary end point.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201707126187N5**
Registration date: **2017-08-25, 1396/06/03**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-08-25, 1396/06/03

Registrant information

Name

Mohammadi Saba

Name of organization / entity

Kashan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

saba-ma@kaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kashan University of Medical Sciences

Expected recruitment start date

2014-02-20, 1392/12/01

Expected recruitment end date

2015-02-20, 1393/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison between nebulized furosemide and salbutamol on dyspnea improvment in chronic obstructive pulmonary disease patients reffered to shahid beheshti hospital

Public title

The effect of nebulized furosemide and salbutamol on dyspnea in chronic obstructive pulmonary disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients with chronic obstructive pulmonary disease based on their spirometry who had dyspnea according to class 3-5 mmrc Exclusion criteria: Advanced heart failure; Severe osteoarthritis; Inability to walking;Tracheal stenosis

Age

From **40 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 90

Randomization (investigator's opinion)

Not randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Kashan University of Medical Sciences Research Council

Street address

Ghotb Ravandi Blv

City

Kashan

Postal code**Approval date**

2010-09-23, 1389/07/01

Ethics committee reference number

4078

Health conditions studied**1****Description of health condition studied**

CHRONIC OBSTRUCTIVE PULMONARY DISEASE

ICD-10 code

J44.9

ICD-10 code description

Chronic obstructive pulmonary disease, unspecified

Primary outcomes**1****Description**

DYSPNEA

Timepoint

5 minute after nebulizer

Method of measurement

questionair

Secondary outcomes**1****Description**

FEV1

Timepoint

15 minute after nebulizer

Method of measurement

spirometry

Intervention groups**1****Description**

salbutamol 2.5 mg

Category

Treatment - Drugs

2**Description**

furosemide40 mg nebulizer

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Kashan University of Medical Sciences

Full name of responsible person

Mohammadali Saba

Street address**City**

Kashan

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Kashan University of Medical Sciences

Full name of responsible person

Dr Gholamreza Hamidi

Street address

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City

Kashan

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Kashan 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

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Web page address**Person responsible for updating data****Person responsible for general inquiries****Contact****Name of organization / entity**

Kashan University of Medical Sciences

Full name of responsible person

Dr Mohammadali Saba

Position

Pulmonologist assistant professor

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

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Kashan University of Medical Sciences

Full name of responsible person

Dr Mohammadali Saba

Position

Pulmonologist assistant professor

Other areas of specialty/work**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