

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

The effect of pulmonary rehabilitation program on self-efficacy and severity of symptoms among patients with chronic obstructive pulmonary disease

Protocol summary

Summary

The aim of this study is to investigate the effect of pulmonary rehabilitation on self efficacy and severity of symptoms in chronic obstructive pulmonary disease patients. This is a semi-experimental clinical trial on 66 mild to moderate COPD patients recruited from Masih Daneshvari outpatient clinic. The patients were randomly assigned into experimental or control groups. The control group received only routine visits and experimental group participated in a pulmonary rehabilitation program. Then, the patients were encouraged to accomplish pulmonary rehabilitation program three times a week for 7 weeks and were followed up by telephone weekly. The self efficacy, fatigue, dyspnea and cough severity were measured and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138905064443N2**

Registration date: **2011-05-14, 1390/02/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-05-14, 1390/02/24

Registrant information

Name

Masoumeh Zakerimoghadam

Name of organization / entity

Tehran University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2010-09-23, 1389/07/01

Expected recruitment end date

2011-03-16, 1389/12/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of pulmonary rehabilitation program on self-efficacy and severity of symptoms among patients with chronic obstructive pulmonary disease

Public title

The effect of pulmonary rehabilitation program on self-efficacy and severity of symptoms among patients with chronic obstructive pulmonary disease

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age less than 65 years, verification of diagnosis of moderate to severe COPD according to GOLD criteria (2008), absence of formal exercise training or pulmonary rehabilitation for at least one year prior to the study, no active symptomatic diseases (cardiac disease, musculoskeletal disease, mental disease) that would interfere with the exercise, literate and able to

speaking Persian, possibility of contact by phone/mobile phone
Exclusion criteria: recent exacerbation or change of medication, recent mobility limitation that interferes with exercise, not participating in educational sessions, lack of employing nutritional recommendation or exercise respiratory practice for at least a week

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **66**

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

Tehran University of Medical Sciences

Street address

Ghods street, Keshavarz Boulevard

City

Tehran

Postal code

Approval date

2010-05-08, 1389/02/18

Ethics committee reference number

89/130/189

Health conditions studied

1

Description of health condition studied

Chronic Obstructive Pulmonary Disease (COPD)

ICD-10 code

J44

ICD-10 code description

Other chronic obstructive pulmonary disease

Primary outcomes

1

Description

Self efficacy

Timepoint

before and after intervention

Method of measurement

Chronic Obstructive Pulmonary Disease Self Efficacy Scale (CSES)

2

Description

severity of dyspnea

Timepoint

before and after intervention

Method of measurement

Dyspnea Severity Scale

3

Description

severity of fatigue

Timepoint

before and after intervention

Method of measurement

Fatigue Severity Scale (FSS)

4

Description

severity of cough

Timepoint

before and after intervention

Method of measurement

Cough Severity Scale

Secondary outcomes

empty

Intervention groups

1

Description

Experimental group participate to pulmonary rehabilitation program that design base on Bandura self efficacy theory. Pulmonary rehabilitation program included self care and self management education, nutrition recommendations, stress reduction methods, effective cough, breathing exercises, control of breathing in crucial situations, and muscle stretching exercises. Researcher instructed the pulmonary rehabilitation components in 3 parts of 30 minutes. Then patients were encouraged to perform pulmonary rehabilitation program at home 3 times a week for 7 weeks. Telephone follow-up program that consisted encourage patients to continue the performance, reinforcement of education, analyze success and failure and answers to the patient questions performed weekly.

Category

Rehabilitation

2**Description**

The control group received only routine visits and telephone follow up weekly.

Category

Treatment - Other

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

Masih Daveshvari hospital

Full name of responsible person**Street address****City**

Tehran

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

Tehran University of Medical Sciences, Iran.

Full name of responsible person

Mr. Madadi

Street address

Ghods street, Keshavarz Boulevard

City

Tehran

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

Yes

Title of funding source

Tehran University of Medical Sciences, Iran.

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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Full name of responsible person

Masoumeh Zakerimoghadam

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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