

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

Efficacy of vitamin D supplementation on pulmonary function tests of chronic obstructive pulmonary disease

Protocol summary

Summary

The aim of this study was to evaluate vitamin D supplementation on pulmonary functions of chronic obstructive pulmonary disease patients. Inclusion criteria consist of current or ex-smokers or who were exposed to noxious inhalants, had a diagnosis of chronic obstructive pulmonary disease according to the global initiative for chronic obstructive lung disease definition, had no history of exacerbation of chronic obstructive pulmonary disease one year before study, no history of renal stone or renal failure or other diseases that interact with vitamin D metabolism or were not taking vitamin D or calcium supplements, no continuous need to oxygen therapy or during exercise. Exclusion criteria include noncompliance, exacerbation of chronic obstructive pulmonary disease during study. This study was a before and after that was performed on 23 outpatients with chronic obstructive pulmonary disease according to the global initiative for chronic obstructive lung disease definition. At the beginning of the study, baseline characteristics included serum level of 25(OH) vitamin D through ELISA method. The patients were given 300000 IU of vitamin D for insufficient (30 ng/ml) and 600000 IU for deficient (20 ng/ml) level of vitamin D as loading dose. Treatment was continued with 50000 IU vit D per oral as pearl weekly for 12 weeks. Primary outcomes were correction of forced expiratory volume in first second.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015012720828N1**

Registration date: **2015-06-09, 1394/03/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-06-09, 1394/03/19

Registrant information

Name

Maryam Haddadzadeh Shoushtari

Name of organization / entity

Ahvaz Jundishapour University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 3292 1839

Email address

haddadzadeh-m@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

1-Vice chancellery for Development, Research and Technology of Iran University of medical Sciences. 2-Researcher

Expected recruitment start date

2011-01-31, 1389/11/11

Expected recruitment end date

2014-06-30, 1393/04/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of vitamin D supplementation on pulmonary function tests of chronic obstructive pulmonary disease

Public title

Efficacy of vitamin D on chronic lung disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients who were current or ex-smokers or were exposed to noxious inhalents; had a diagnosis of chronic obstructive pulmonary disease according to the global initiative for chronic obstructive lung Disease definition; had no history of chronic obstructive pulmonary disease exacerbation one year before study; no history of renal stone or renal failure or other diseases that interact with vitamin D metabolism or were not taking vitamin D or calcium supplements ; no continue need to oxygen therapy or during exercise. Exclusion characteria: noncompliance; exacerbation of chronic obstructive pulmonary disease during study.

Age

From **14 years** old to **139 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **23**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

iran university of medical sciences

Street address

hemmat highway

City

tehran

Postal code

141555983

Approval date

2014-08-30, 1393/06/08

Ethics committee reference number

1213/105/93/ص

Health conditions studied

1

Description of health condition studied

chronic obstructive airway diseases

ICD-10 code

J44.9

ICD-10 code description

Chronic obstructive pulmonary disease, unspecified

Primary outcomes

1

Description

Forced expiratory volume in one second

Timepoint

before intervention and three month later at the end of study

Method of measurement

percent of predicted

Secondary outcomes

1

Description

saturation of oxygen and six minutes walk test

Timepoint

before intervention and three months after intervention

Method of measurement

percent and meters

2

Description

saturation of oxygen and six minutes walk test

Timepoint

before intervention and three month later at the end of the study

Method of measurement

percent and meter

Intervention groups

1

Description

3000000-600000 IU of vitamin D as loading dose and 50000 IU weekly for three month

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam khomaii hospital

Full name of responsible person

Maryam Haddadzadeh Shoushtari

Street address

Azadegan street
City
Ahvaz

2

Recruitment center

Name of recruitment center
Hazrat Rassol Hospital
Full name of responsible person
maryam Haddadzadeh Shoushtari
Street address
nyaiesh street, satarkhan street
City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellery for Development, Research and
Technology of of Iran University of medical Sciences
Full name of responsible person
dr. Seied Ali Javad Moosavi
Street address
Hemmat heighway
City
Tehran

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Vice chancellery for Development, Research and
Technology of of 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
Ahvaz jundishapour university of medical sciences
Full name of responsible person
Maryam haddadzadeh Shoushtari
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Pulmonologist/Head of medical ethic department
Other areas of specialty/work
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**Person responsible for scientific
inquiries**

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Person responsible for updating data

Contact

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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