

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jul 2026

Effect of Chlorella Vulgaris complementary therapy in improving symptoms and pulmonary function test measures in patients with silicosis

Protocol summary

Summary

The purpose of this study was to evaluate the effect of Chlorella vulgaris therapy in improving symptoms and lung function tests in patients with silicosis. Silicosis patients with severe or chronic signs and complicated forms of silicosis, have been included. Those patients with having heart disease, Forced Expiratory Volume and Therapeutic Lifestyle Changes less than 40 percent, Non-cooperation during Pulmonary Function Tests and Tuberculosis infection were excluded from this study. 47 patients were randomly allocated into two groups, 24 intervention group and 23 standard group including Bronchodilator. In the intervention group, along with other available chemical drugs, was prescribed nine tablets of Algomed, at start of study and after 8 weeks. clinical symptoms, general appearance, and spirometry indices were measured and compared before and after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015010720592N1**

Registration date: **2015-04-20, 1394/01/31**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-20, 1394/01/31

Registrant information

Name

Seyed Mohammad Reza Hashemian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2610 9944

Email address

iran.criticalcare@yahoo.com

Recruitment status

Recruitment complete

Funding source

not Funding

Expected recruitment start date

2011-01-30, 1389/11/10

Expected recruitment end date

2012-01-30, 1390/11/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Chlorella Vulgaris complementary therapy in improving symptoms and pulmonary function test measures in patients with silicosis

Public title

Effects of Chlorella Vulgaris in improving of symptoms of silicosis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Signs and symptoms of severe, chronic and complicated forms of silicosis; Age between 18 to 75. Exclusion criteria: Having heart disease; Forced Expiratory Volume and Therapeutic Lifestyle Changes less than 40 percent; Non-cooperation during Pulmonary Function Tests; Patients with the history of hospitalization due to the disease exacerbations during the past three

months; Tuberculosis infection; Body Mass Index more than 30

Age

From **18 years** old to **75 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **47**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahid Beheshti University of Medical Sciences

Street address

Yemen Street, Shahid Chamran Highway, Shahid Beheshti University of Medical Sciences, Tehran, Iran

City

Tehran

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

Under review

Health conditions studied

1

Description of health condition studied

silicosis

ICD-10 code

J62.8

ICD-10 code description

Pneumoconiosis due to other dust containing silica

Primary outcomes

1

Description

Number of attacks

Timepoint

at the start of the study and after 2 months

Method of measurement

Observation

Secondary outcomes

empty

Intervention groups

1

Description

In intervention group , In addition to standard therapy, 9

Algomed tablets daily for eight weeks

Category

Treatment - Drugs

2

Description

Control Group: Standarad treatment (Bronchodilator)

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Modares hospital

Full name of responsible person

Seyed Mohammad reza hashemian

Street address

18 km road Najaf Abad, Najaf Abad, Iran

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Mohammad Mehdi Sadoughi

Street address

Shahid Beheshti University of Medical Sciences, Tabnak Street, Shahid Chamran Highway, Tehran, Iran

City

Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Shahid Beheshti 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**

Masih daneshvari hospital

Full name of responsible person

Seyed Mohammad reza Hashemian

Position

Associate Professor

Other areas of specialty/work**Street address**Masih Daneshvari Hospital, Darabad, Niavaran Sq,
Tehran, Iran**City**

Tehran

Postal code

0098

Phone

+98 21 2610 9512

Fax**Email**

smrhashemian@sbmu.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Masih Daneshvari Hospital

Full name of responsible person

Seyed Mohammad reza hashemian

Position

Associate professor

Other areas of specialty/work**Street address**Masih Daneshvari Hospital, Darabad, Niavaran Sq,
Tehran, Iran**City**

Tehran

Postal code**Phone**

+98 21 2610 9512

Fax**Email**

smrhashemian@sbmu.ac.ir

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

Masih Daneshvari Hospital

Full name of responsible person

seyed mohammad reza hashemian

Position

Associate Professor

Other areas of specialty/work**Street address**Masih Daneshvari Hospital, Darabad, Niavaran Sq,
Tehran, Iran**City**

Tehran

Postal code**Phone**

+98 21 2610 9512

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*