

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Investigating the effectiveness and side effects of Deep Lung Support capsule as adjuvant treatment with pirfenidone compared to placebo on clinical symptoms, pulmonary function tests and serum TGF- β levels in patients with idiopathic pulmonary fibrosis.

Protocol summary

Study aim

Determining the clinical and laboratory effects of Deep Lung Support in patients with idiopathic pulmonary fibrosis (IPF) treated with Pirfenidone

Design

The clinical trial with two intervention groups, with parallel groups, double-blind, on 70 patients, and Random Number Generator software will be used for randomization.

Settings and conduct

Patients with idiopathic pulmonary fibrosis, referring to Shahid Modares and Masih Deneshvari hospitals in Tehran, will be included in the study. The study will be double-blind, and the subjects and outcome assessors will be unaware of the drug or placebo allocation. For this purpose, capsules with the same color, shape, size and smell as Deep Lung Support capsules will be used.

Participants/Inclusion and exclusion criteria

Inclusion criteria: being at the age of 40-80 years, FVC>40 and less than or equal to 90%, DLCO>40 and less than or equal to 90%. Exclusion criteria: FEV1/FVC ratio less than 0.8, suffering from other interstitial lung diseases, history of chronic lung disease, active infection, treated with other IPF treatment methods, history of unstable heart or lung disease or worse in the last six months, pregnant and lactating women.

Intervention groups

The intervention group will receive 1 oral capsule of deep lung support, three times a day, and the control group will receive a placebo medicine that contains cellulose and will be similar in shape, size and taste to the capsule of deep lung support. In both groups, Pirfenidone 267 mg, that in the first week 801 mg, in the second week 534 mg and from the third week onwards (maintenance treatment) 801 mg will be consumed three times a day.

Main outcome variables

Clinical symptoms (shortness of breath and cough)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230509058135N1**

Registration date: **2023-05-22, 1402/03/01**

Registration timing: **registered_while_recruiting**

Last update: **2023-05-22, 1402/03/01**

Update count: **0**

Registration date

2023-05-22, 1402/03/01

Registrant information

Name

Sasan Tavana

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 29901

Email address

sasan.tavana@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-05-10, 1402/02/20

Expected recruitment end date

2023-11-11, 1402/08/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effectiveness and side effects of Deep Lung Support capsule as adjuvant treatment with preferidone compared to placebo on clinical symptoms, pulmonary function tests and serum TGF- β levels in patients with idiopathic pulmonary fibrosis.

Public title

The effect of deep lung support capsule in idiopathic pulmonary fibrosis

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Forced vital capacity (FVC) greater than 40% and less than or equal to 90% Diffusing capacity of the lungs for carbon monoxide (DLCO) greater than or equal to 40% and less than or equal to 90%

Exclusion criteria:

Having an FEV1/FVC ratio of less than 0.8 (after bronchodilator administration) at screening Suffering from other interstitial lung diseases, history of asthma or chronic lung disease, active infection, being treated with other IPF treatment methods such as immunosuppressives and cytokine regulating agents. History of unstable or worsening heart or lung disease (except IPF) in the past six months Pregnant and lactating women

Age

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

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Outcome assessor

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

A simple randomization method is used, in which the randomization unit is individual, and random sequence generation software (Random Number Generator software) is used. For concealment, non-transparent sealed envelopes with a random sequence is used. In this method, each random number created is recorded on a card and the cards are placed inside the envelopes in order. In order to maintain the random sequence of the envelopes on the outer surface, the numbering is done in the same order. Finally, the lids of the envelopes are glued and placed in a box. At the time of registration of the participants, based on the order of entry of the eligible participants into the study, one of the envelopes will be opened and the allocated group of that participant

will be revealed.

Blinding (investigator's opinion)

Double blinded

Blinding description

This will be a double-blind study in which the participants and the researcher who evaluates the effectiveness of the drug will be unaware of the outcome of the variables. For this purpose, a capsule with the same shape, size, color and smell as the Deep Long Support capsule will be used as a placebo.

Placebo

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

Deputy of research and technology of Shahid Beheshti University of Medical sciences, Shahid Arabi St., Yemen St., Shahid Chamran Highway.

City

Tehran

Province

Tehran

Postal code

1983969411

Approval date

2023-05-02, 1402/02/12

Ethics committee reference number

IR.SBMU.MSP.REC.1402.032

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

Idiopathic Pulmonary Fibrosis

ICD-10 code

J84.112

ICD-10 code description

Idiopathic pulmonary fibrosis

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

Clinical symptoms (cough and shortness of breath)

Timepoint

Once before starting treatment and once 3 months after

that

Method of measurement

"Rate of perceived exertion" and "cough symptom score" scales

2

Description

Pulmonary function tests

Timepoint

Once before starting treatment and once 3 months after that

Method of measurement

by spirometry

3

Description

TGF- β serum level

Timepoint

Once before starting treatment and once 3 months after that

Method of measurement

by blood sample testing

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In addition to pirfenidone tablets, each subject in the intervention group will take an oral deep lung support capsule three times a day with water. The way to take pirfenidone is that each capsule contains 267 mg of medicine, the first week: 267 mg capsules three times a day (801 mg daily) the second week: 534 mg capsules three times a day (1602 mg daily) and from the third week onwards (maintenance treatment): 801 mg three times a day (maximum allowed daily dose: 2403 mg) will be prescribed to the patient.

Category

Treatment - Drugs

2

Description

Control group: In this group, in addition to pirfenidone tablets, there will be a placebo that contains cellulose and will be similar to deep lung support capsules in terms of shape, size and taste. One capsule will be given to the patient three times a day. The way to take pirfenidone is that each capsule contains 267 mg of medicine, the first week: 267 mg capsules three times a day (801 mg daily) the second week: 534 mg capsules three times a day (1602 mg daily) and from the third week onwards (maintenance treatment): 801 mg three times a day (maximum allowed daily dose: 2403 mg) will be prescribed to the patient.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Modarres hospital

Full name of responsible person

Sasan Tavana

Street address

Saadat Abad intersection, Yadgar Imam highway

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Email

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2

Recruitment center

Name of recruitment center

Masih Daneshvari hospital

Full name of responsible person

Sasan Tavana

Street address

Darabad, Shahid Bahonar Street (Niavaran)

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Tehran

Province

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1956944413

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pr.nritld@sbmu.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Afshin Zarghi

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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

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Sasan Tavana

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Internal Medicine

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Person responsible for scientific inquiries

Contact

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Shahid Beheshti University of Medical Sciences

Full name of responsible person

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Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Parinaz Partovi

Position

resident

Latest degree

Medical doctor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to

make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available