

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Investigation of the effects of oral curcumin on pulmonary complications due to sulfur mustard exposure

Protocol summary

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Summary

The aim of this study is to investigate the efficacy of curcumin on the clinical symptoms and quality of life of patients with chronic respiratory complications due to sulfur mustard exposure. The study population consists of patients with documented pulmonary complications due to sulfur mustard. Patients with respiratory problems due to other factors would be excluded from the study. Patients (two groups of 40 subjects each) would be treated with a combination of curcumin (150 mg/day) and piperine (15 mg/day), or placebo. Primary efficacy measures at baseline and at the end of study would be the spirometric parameters and quality of life based on the St. George questionnaire.

Recruitment status

Recruitment complete

Funding source

Baqiyatallah University of Medical Sciences

Expected recruitment start date

2012-10-22, 1391/08/01

Expected recruitment end date

2013-10-23, 1392/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013091114521N2**

Registration date: **2013-12-10, 1392/09/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-12-10, 1392/09/19

Registrant information

Name

Amirhossein Sahebkar

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 1882 9260

Email address

Scientific title

Investigation of the effects of oral curcumin on pulmonary complications due to sulfur mustard exposure

Public title

The effects of curcumin on respiratory problems due to mustard gas

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Documented sulfur mustard exposure and documented respiratory damage due to mustard intoxication. Exclusion: Participation in a concomitant trial; presence of life-threatening disorders; smoking and addiction; cardiovascular disease; lung cancer; pneumonia; acute bronchitis; development of severe drug-related adverse events; use of antioxidant supplements/drugs in the preceding three months; lungectomy and aggravation of symptoms during the course of study.

Age

From **18 years** old to **70 years** old

Gender

Male

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Baqiyatallah University of Medical Sciences Ethics Committee

Street address

Molla-Sadra st, Vanaq sq, Baqiyatallah University of Medical Sciences

City

Tehran

Postal code

91775-1365

Approval date

2012-10-22, 1391/08/01

Ethics committee reference number

8080

2

Ethics committee

Name of ethics committee

Baqiyatallah University of Medical Sciences Ethics Committee

Street address

Molla-Sadra st, Vanaq sq, Baqiyatallah University of Medical Sciences

City

Tehran

Postal code

Approval date

2012-07-25, 1391/05/04

Ethics committee reference number

340/3/5885

Health conditions studied

1

Description of health condition studied

Chronic respiratory problems due to mustard gas intoxication

ICD-10 code

J68.4

ICD-10 code description

Chronic respiratory conditions due to chemicals, gases, fumes and vapours

Primary outcomes

1

Description

Improvement of patients' quality of life

Timepoint

After four weeks of treatment

Method of measurement

Based on the st. George questionnaire

2

Description

Improvement of respiratory symptoms

Timepoint

After four weeks of treatment

Method of measurement

Based on the CAT questionnaire

Secondary outcomes

1

Description

Changes in serum levels of tumor necrosis factor-alpha

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

2

Description

Changes in serum levels of transforming growth factor-beta

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

3

Description

Changes in serum levels interleukin 6

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

4

Description

Changes in serum levels interleukin 8

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

5

Description

Changes in serum levels of macrophage chemotactic protein-1

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

6

Description

Changes in serum levels of substance P

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

7

Description

Changes in serum levels of C-reactive protein

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

8

Description

Changes in serum levels of calcitonin gene-related peptide

Timepoint

After four weeks of treatment

Method of measurement

Enzyme-linked immunosorbent assay (ELISA)

Intervention groups

1

Description

Intervention group: curcumin (1500 mg/day)

Category

Treatment - Drugs

2

Description

Control group: placebo

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Baqiyatallah Hospital

Full name of responsible person

Yunes Panahi

Street address

Chemical Injuries Research Center, Baqiyatallah University of Medical Sciences

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Baqiyatallah University of Medical Sciences

Full name of responsible person

Dr. Alireza Saadat

Street address

Molla-Sadra st., Vanaq sq., Deputy of Research, Baqiyatallah University of Medical Sciences

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Baqiyatallah 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

Chemical Injuries Research Center, Baqiyatallah university of Medical Sciences

Full name of responsible person

Yunes Panahi

Position

Ph.D

Other areas of specialty/work

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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*