

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jun 2026

The effect of zinc sulfate on duration of pediatric pneumonia

Protocol summary

Summary

This study is a clinical trial on 100 children aged 1-5 years admitted in Pediatrics Wards of Kashan Beheshti Hospital with complaints of fever, cough and tachypnea in 2015. Pneumonia is confirmed by chest radiography. Patients with the history of pulmonary disease including asthma, documented heart disease or other chronic disease, immunodeficiency, proven pathologic gastroesophageal reflux disorder and malnutrition or growth failure are excluded from the study. Patients randomly assign into two groups. Intervention group receive zinc sulfate prepared by Farabi Company and the control group will receive placebo 1 milligram per kilogram of body weight daily for 7 days. Treatment protocols for pneumonia shall be conducted in two groups. Duration of fever, cough, tachypnea and hospitalization will be recorded by the question of mothers and study of dossier.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014052711145N11**

Registration date: **2015-03-07, 1393/12/16**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-03-07, 1393/12/16

Registrant information

Name

Mohammad Reza Sharif

Name of organization / entity

Kashan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 31 5554 0026

Email address

sharif_m@kaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kashan University of Medical Sciences

Expected recruitment start date

2015-03-06, 1393/12/15

Expected recruitment end date

2016-03-05, 1394/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of zinc sulfate on duration of pediatric pneumonia

Public title

The effect of zinc sulfate on the improvement of pediatric pneumonia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: children 1 to 5 years old hospitalized in Kashan Beheshti Hospital; fever (axillary temperature 37.5° C or more); cough; tachypnea. Exclusion criteria: the history of pulmonary disease including asthma; documented heart disease or other chronic disease; immunodeficiency; proven pathologic gastroesophageal reflux disorder; malnutrition or growth failure; treatment with zinc or a zinc supplement within 3 months past.

Age

From **1 year** old to **5 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

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

Kashan University of Medical Sciences

Street address

Kashan University of Medical Sciences, Ghotbe
Ravandi Blvd, Kashan, Iran

City

Kashan

Postal code

Approval date

2015-02-10, 1393/11/21

Ethics committee reference number

5341

Health conditions studied

1

Description of health condition studied

Pneumonia

ICD-10 code

J18.9

ICD-10 code description

Pneumonia, unspecified

Primary outcomes

1

Description

Fever improvement

Timepoint

q 6 hour

Method of measurement

Mercury thermometer with axillary method

2

Description

Cough improvement

Timepoint

Daily

Method of measurement

Asking from mother

3

Description

Tachypnea improvement

Timepoint

Daily

Method of measurement

Breathing rate

Secondary outcomes

1

Description

Duration of hospital stay

Timepoint

At discharge

Method of measurement

Days recorded in dossier

Intervention groups

1

Description

Intervention group: Oral administration of Zinc sulfate
1mg (1cc) / kg daily for 7 days

Category

Treatment - Drugs

2

Description

Control group: Oral administration of placebo solution
1cc / kg daily for 7 days

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Dr. Mohammad Reza Sharif

Street address

Shahid Beheshti Hospital, Ghotbe Ravandi Blvd,
Kashan, Iran

City

Kashan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kashan University of Medical Sciences

Full name of responsible person

Dr. Gholam Ali Hamidi

Street address

Kashan University of Medical Sciences, Ghotbe
Ravandi Blvd, Kashan, Iran

City

Kashan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kashan 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

Kashan University of Medical Sciences

Full name of responsible person

Dr.Mohammad Reza Sharif

Position

Associate Professor, Pediatric Infectious Diseases
Subspecialist

Other areas of specialty/work

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Person responsible for scientific inquiries

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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