Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 improvment
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
Street address
Kashan University of Medical Sciences, Ghotbe Ravandi Blvd, Kashan, Iran
City
Kashan
Postal code
Phone
+98 31 5554 0026
Fax
+98 31 5554 8900
Email
mrsharifmd@yahoo.com
Web page address

Person responsible for scientific 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
Street address
Kashan University of Medical Sciences, Ghotbe Ravandi Blvd, Kashan, Iran
City
Kashan
Postal code
Phone
+98 31 5554 0026
Fax
+98 31 5554 8900
Email
mrsharifmd@yahoo.com
Web page address
www.drsharif.ir

Person responsible for updating data

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
Street address
Kashan University of Medical Sciences, Ghotbe Ravandi Blvd, Kashan, Iran
City
Kashan
Postal code
Phone
+98 31 5554 0026
Fax
+98 31 5554 8900
Email
mrsharifmd@yahoo.com
Web page address
www.drsharif.ir

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