

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Zink supplement effect in Community Acquired Pneumonia Outcome in hospitalized Patients

Protocol summary

Summary

This randomized Placebo controlled clinical trial to evaluate the effect of supplementation "zinc" in the outcome of elderly patients hospitalized with community-acquired pneumonia will be done. 90 elderly patients hospitalized with community-acquired pneumonia at 92 and 93 years Boali and Velayat Qazvin Hospitals, will randomly assigned to two groups of capsules 110mg two times a 4-day zinc sulfate, and the group of placebo. All patients will receive standard antibiotic treatment for pneumonia. Groups will be compared the initial characteristics. Outcomes will be compared in two groups, the number of days of hospitalization, days with tachypnea, hours of fever, duration of hypoxia, and on the third-fifth day of systolic and diastolic blood pressure, improve the level of consciousness, resolution of leukocytosis, ESR, platelet count.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015013120882N1**

Registration date: **2015-04-04, 1394/01/15**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-04, 1394/01/15

Registrant information

Name

Abbas Allami

Name of organization / entity

Qazvin University of Medical Science

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Qazvin University of Medical sciences

Expected recruitment start date

2013-07-23, 1392/05/01

Expected recruitment end date

2014-07-23, 1393/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Zink supplement effect in Community Acquired Pneumonia Outcome in hospitalized Patients

Public title

Effect of Zink Sulphate in Pneumonia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Community Acquired Pneumonia; admitted patient; older than 50 years; Exclusion Criteria: Severe neurologic disease; Admission more than 25 days; Death due to Other Causes;

Age

From **50 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 90

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Qazvin University of Medical Sciences

Street address

Research and technology Center, Qazvin University of Medical Sciences, Shahid Bahonar Blvd

City

Qazvin

Postal code

Approval date

2013-10-14, 1392/07/22

Ethics committee reference number

28/20/7921

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

Duration Of Admission

Timepoint

Day1, Day2, Day3, ... Day of discharge

Method of measurement

records

2

Description

Duration Of Tachypnea

Timepoint

Day1, Day2, Day3, ... Day of discharge

Method of measurement

Examination

3

Description

Duration Of Tachycardia

Timepoint

Day1, Day2, Day3, ... Day of discharge

Method of measurement

Examination

4

Description

Blood Pressure day 4

Timepoint

Time of Admission, 4th Day

Method of measurement

Barometer

5

Description

Duration Of Fever

Timepoint

Time of Admission, 6hours Later, 12hours Later, 18hours Later, Time of Discharge

Method of measurement

Thermometer

6

Description

Duration Of Hypoxia

Timepoint

Day1, Day2, Day3, ... Day of discharge

Method of measurement

Electronic Pulseoxymeter

7

Description

GCS Day 4

Timepoint

Time of Admission, 4th Day

Method of measurement

Examination

8

Description

WBC Day 4

Timepoint

Time of Admission, 4th Day

Method of measurement

Laboratory

9

Description

ESR Day 4

Timepoint

Time of Admission, 4th Day

Method of measurement

Laboratory

10

Description

Platelet Day 4

Timepoint

Time of Admission, 4th Day

Method of measurement

Laboratory

Secondary outcomes

empty

Intervention groups

1

Description

Intervention Group: Zinc Sulphate 110 mg Capsules q12h for 4 days

Category

Treatment - Drugs

2

Description

Control Group: Placebo Capsules Same as Zinc Sulphate 110 mg Capsules q12h for 4 days

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Bouali Hospital

Full name of responsible person

Dr Saeed Sharafi

Street address

Infectious Disease Ward, Bouali Hospital

City

Qazvin

2

Recruitment center

Name of recruitment center

Velayat Hospital

Full name of responsible person

Dr. Saeed Sharafi

Street address

Velayat Hospitalsl, Taavon Sq. ,22 Bahaman Blvd,

Elahieh

City

Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Dr. Mahnaz Abbasi

Street address

Research and technology Center, Qazvin University of Medical Sciences, Shahid Bahonar Blvd

City

Qazvin

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Qazvin 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

Qazvin University of Medical Sciences

Full name of responsible person

Dr. Saeed Sharafi

Position

Infectious Disease Resident

Other areas of specialty/work

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Person responsible for scientific inquiries

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Name of organization / entity

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Person responsible for updating data

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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