

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Evaluation of the effect of vitamin D on the course of pneumonia in patients admitted of Shahid Beheshti Hospital in 2014-2015

Protocol summary

Summary

This study compares the effect of vitamin D in improvement of patients with pneumonia . This study is a double blind randomized clinical trial. The study included all patients with pneumonia (based on clinical and radiological diagnosis of pneumonia) hospitalized in Kashan Shahid Beheshti hospital. The exclusion criteria consist of malnutrition and systemic disease. Patients were randomly divided into two groups of 60 cases that the intervention group received oral vitamin D3 2000 IU with antibiotics (standard treatment for pneumonia based on clinical findings and the opinion of infectious disease specialist) for 7 days. The control group received antibiotics (standard treatment for pneumonia) and placebo for 7 days. Then improvement of clinical symptoms, hemodynamics and length of hospitalization were evaluated and compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201511023576N3**

Registration date: **2017-04-18, 1396/01/29**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-04-18, 1396/01/29

Registrant information

Name

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Name of organization / entity

Kashan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kashan University of Medical Sciences

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-12-22, 1394/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of vitamin D on the course of pneumonia in patients admitted of Shahid Beheshti Hospital in 2014-2015

Public title

vitamin D on the course of pneumonia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: clinical and radiological diagnosis of pneumonia; aged more than 18 years; consent to the entry into the study; able to eat oral vitamin D and placebo. The exclusion criteria: malnutrition; systemic disease; diarrhea; intolerance or sensitivity to vitamin D; recent use of antibiotics.

Age

From **18 years** old to **100 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 120

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

Ethics committee of Kashan University of Medical Sciences

Street address

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

City

Kashan

Postal code

Approval date

2014-12-17, 1393/09/26

Ethics committee reference number

4914

Health conditions studied

1

Description of health condition studied

Pneumonia

ICD-10 code

J09, J10,

ICD-10 code description

Influenza and pneumonia

Primary outcomes

1

Description

Clinical signs

Timepoint

At admission, 48 hours after taking the drug, 96 hours after taking the drug, at discharge

Method of measurement

Physical examination

Secondary outcomes

1

Description

Length of stay in hospital

Timepoint

At discharge

Method of measurement

Review patient records

2

Description

Hemodynamic

Timepoint

At admission 48 hours after taking the drug, 96 hours after taking the drug, at discharge

Method of measurement

Barometer, thermometer, examination

3

Description

Duration of stopping cough and shortness of breath

Timepoint

At admission 48 hours after taking the drug, 96 hours after taking the drug, at discharge

Method of measurement

Question from patient

Intervention groups

1

Description

The intervention group: start the standard antibiotic treatment for pneumonia and received 1000 units of vitamin D daily for 7 days from the second day after the entry into the study

Category

Treatment - Drugs

2

Description

Control group: Starting the standard antibiotic treatment for pneumonia and received placebo tablets with the same shape and size from the second day after entry into the study

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Kashan Shahid Beheshti Hospital

Full name of responsible person

Dr Zahra Soleimani

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Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**Vice chancellor for research, Kashan University of
Medical Sciences**Full name of responsible person**

Dr. Gholam Ali Hamidi

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Boulevard, Kashan, Iran**City**

Kashan

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding sourceVice chancellor for research, 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. Zahra Soleimani

Position

Associate Professor, Infectious Diseases Specialist

Other areas of specialty/work**Street address**

Kashan university of medical science, Ghotbe Ravandi

Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Full name of responsible person

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Position

Assistant Professor, Infectious disease specialist

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Web page address**Person responsible for updating data****Contact****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*