Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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
Zahra Soleimani
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 stoping 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
Street address
Kashan Shahid Beheshti Hospital, Ghotbe Ravandi Boulevard, Kashan, Iran
City
Kashan

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
Street address
Kashan university of medical science, Ghotbe Ravandi 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 source
Vice 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
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Position
Associate Professor, Infectious Diseases Specialist
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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