

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

On the Investigation of Resistance Pattern of Pneumococcal Pneumonia toward Ceftriaxone, Azithromycin and Co-amoxiclav in Clinic and Laboratory

Protocol summary

Summary

Streptococcus pneumoniae is the most prevalent cause of respiratory tract bacterial infection. In recent years, high resistance of pneumococ toward antibiotics strains has been reported. In this study, resistance pattern of Pneumococcal Pneumonia toward Ceftriaxone, Azithromycin and Co-amoxiclav in clinic and lab has been investigated. Method: in this study, between September 2012 and February 2014, adult patients at infectious clinic of Birjand Vali-asr hospital, who were detected having pneumonia, were studied in single blind clinical trials. Patients were randomly assigned to one of the three medicine diets of Azithromycin, Ceftriaxone and Co-amoxiclav; after 48-72 hours, patients who were detected having streptococcus pneumonia were sustained in our study and their clinic and laboratory resistance were compared using the three regimens mentioned above. Data analysis was conducted by the use of SPSS 15, Chi-square test, Fisher exact test and Kappa coefficient test.

General information

Acronym

streptococcus pneumonia

IRCT registration information

IRCT registration number: **IRCT2014062318206N1**

Registration date: **2014-10-03, 1393/07/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-10-03, 1393/07/11

Registrant information

Name

Azadeh Ebrahimzadeh

Name of organization / entity

Birjand University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 56 1444 8671

Email address

a.ebrahimzadeh@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2012-09-22, 1391/07/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

On the Investigation of Resistance Pattern of Pneumococcal Pneumonia toward Ceftriaxone, Azithromycin and Co-amoxiclav in Clinic and Laboratory

Public title

pneumococcal pneumonia resistance to antibiotics

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age over 15 years old and diagnosis of pneumococcus infection. Exclusion criteria: epast antibiotic in 48 hours and toxicity drug reaction.

Age

From **15 years** old to **80 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **98**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Patients were randomly assigned to one of the three medicine diets of Azithromycin, Ceftriaxone and Co-amoxiclav; after 48-72 hours, patients who were detected having streptococcus pneumonia were sustained in our study and their clinical and laboratory resistance were compared.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Birjand Universtiy of Medical Sciences

Street address

Birjand Universtiy of Medical Sciences, Ghaffari street

City

Birjand

Postal code

9718797187

Approval date

2012-07-22, 1391/05/01

Ethics committee reference number

91-05-04

Health conditions studied

1

Description of health condition studied

Pneumococcus pneumonia

ICD-10 code

J13

ICD-10 code description

Pneumonia due to Streptococcus pneumoniae

Primary outcomes

1

Description

Fever

Timepoint

72 hours

Method of measurement

Thermometer

Secondary outcomes

1

Description

Drug reaction

Timepoint

48 hours

Method of measurement

Observation

Intervention groups

1

Description

Azithromycin (orally 500 mg in first day, and 250 mg for the next days) for 10 days

Category

Treatment - Drugs

2

Description

Amp Ceftriaxone (infusion 1 gram per 12 hours) for 72 hours and then cap cefixime 200 mg one 12 hours for complete 10 days

Category

Treatment - Drugs

3

Description

Cap Co-amoxiclav (orally 625 mg per 8 hours) for 10 days

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Vali Aasr Hospital

Full name of responsible person

Azadeh Ebrahimzadeh

Street address

Vali Asr Hospital

City

Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research assistant office Birjand University of Medical Sciences

Full name of responsible person

Dr. Asghar Zarban

Street address

Third floor, Birjand University of Medical Sciences, Research Assistant Office

City

Birjand

Grant name

جاری

Grant code / Reference number

10506

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

Yes

Title of funding source

Research assistant office Birjand 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**

Birjand University of Medical Sciences

Full name of responsible person

Azadeh Ebrahimzadeh

Position

Assistant professor

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

Birjand University of Medical Sciences

City

Birjand

Postal code

9718797187

Phone

+98 56 1444 8671

Fax**Email**

a.ebrahimzadeh@bums.ac.ir;
mr14436@yahoo.comm.zare@live.co.uk

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Azadeh Ebrahimzadeh

Position

Assistant Professor

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

Birjand University of Medical Sciences

City

Birjand

Postal code

9781797187

Phone

+98 56 1444 8671

Fax**Email**

a.ebrahimzadeh@bums.ac.ir;
mr14436@yahoo.comm.zare@live.co.uk

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Birjand University of Medical Sciences

Full name of responsible person

Gholam Reza Sharifzadeh

Position

Assistant Professor

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

Birjand University of Medical Sciences

City

Birjand

Postal code

9718797187

Phone

+98 56 1882 5377

Fax

+98 56 1444 0388

Email

rezamood@yahoo.com; m.zare@live.co.uka;
ebrahimzadeh@bums.ac.ir

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