

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Evaluation of the effect of doxycycline on asthma_like infection

Protocol summary

Study aim

Determining the effect of doxycycline in the treatment of asthma_like infections compared with classical treatment

Design

Clinical trial, double-blind, randomized, phase 2_3 on 50 patients. The randomized site was used for randomization.

Settings and conduct

pulmonary subspecialty clinic

Participants/Inclusion and exclusion criteria

Patient over 18 years with new infection with asthma-like symptoms for more than 6 weeks Cough, shortness of breath, stimulation with environmental factors and obstructive spirometry with reversibility of more than 12% with short-acting beta-agonist

Intervention groups

Patient over 18 years with new infection with asthma-like symptoms for more than 6 weeks Cough, shortness of breath, stimulation with environmental factors and obstructive spirometry with reversibility of more than 12% with short-acting beta-agonist

Main outcome variables

Wheezing at the physical examination Asthma attacks
Recurrence of asthma Cough Dyspnea

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220412054507N1**
Registration date: **2022-04-18, 1401/01/29**
Registration timing: **retrospective**

Last update: **2022-04-18, 1401/01/29**

Update count: **0**

Registration date

2022-04-18, 1401/01/29

Registrant information

Name

Sara Nejati Zahmatkesh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3878 9652

Email address

sarah.nejati.z@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-12, 1400/01/23

Expected recruitment end date

2022-02-12, 1400/11/23

Actual recruitment start date

2021-04-21, 1400/02/01

Actual recruitment end date

2022-01-21, 1400/11/01

Trial completion date

empty

Scientific title

Evaluation of the effect of doxycycline on asthma_like infection

Public title

effect of doxycycline on asthma_like infection

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patient older than 18 years with new infection with asthma-like symptoms and signs for more than 6 weeks like cough,dyspnea,stimulation with environmental factors and obstructive spirometry with reversibility of more than 12% with short-acting beta-agonist

Exclusion criteria:

Pregnancy/GERD/Sensitivity to Doxycycline/ Liver diseases

Age

From **18 years** old

Gender
Both

Phase
2-3

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

Sample size
Target sample size: **50**
Actual sample size reached: **52**

Randomization (investigator's opinion)
Randomized

Randomization description
Using <https://www.randomizer.org>, we randomly assign 50 codes to two groups of doxycycline and placebo. The drugs are all in the form of capsules with the same shape, size, color and packaging but different codes. Medications are given to a co-worker who is in our clinic and is unaware of the type of medication or placebo and the disease.

Blinding (investigator's opinion)
Double blinded

Blinding description
Medications are given to a co-worker who is in our clinic and is unaware of the type of medication or placebo and the disease, so that patients can be given a package of medication.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics Committee in Research, Islamic Azad University, Mashhad

Street address
Ostad Yusofi Street, Emamieh Boulevard
,GhasemAbad, Mashhad, Iran

City
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Province
Razavi Khorasan

Postal code
91735-413

Approval date
2021-05-19, 1400/02/29

Ethics committee reference number

IRI.IAU.MSHD.REC.1400.036

Health conditions studied

1

Description of health condition studied

Asthma

ICD-10 code

J45

ICD-10 code description

Asthma

Primary outcomes

1

Description

Asthma treatment

Timepoint

In the beginning of the study, one and two months after taking the drugs

Method of measurement

ACT Questionnaire, Spirometry and Clinical sings and symptoms

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: This group is taken 100 mg doxycycline Cap twice a day for 15 days.

Category

Treatment - Drugs

2

Description

Control group: This group is taken 100 mg placebo twice a day for 15 days

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Clinic of lung and allergy

Full name of responsible person

Dr. Majid Mirsadraee

Street address

Iman Bldg, Between Kosar 6 and 4, Kosar Blvd,Mashhad, Khorasan Razavi province

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Sponsors / Funding sources

1

Sponsor

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Grant name

Grant code / Reference number

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

No

Title of funding source

Sponcer

Proportion provided by this source

10

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Other

Person responsible for general inquiries

Contact

Name of organization / entity
Islamic Azad University
Full name of responsible person
Sara Nejati Zahmatkesh
Position
Medical student
Latest degree

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Person responsible for updating data

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

All data is potentially shareable after unidentifiable individuals

When the data will become available and for how long

Unlimited

To whom data/document is available

Students and researchers

Under which criteria data/document could be used

To conduct further research and expand knowledge

From where data/document is obtainable

Sending email is needed

What processes are involved for a request to access data/document

Sending email is needed

Comments