

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

Allergenicity and immunochemical characterization of five plant pollens

Protocol summary

Study aim

This study aimed to evaluate the allergenicity and immunochemical characterization of five plant pollens

Design

A clinical trial with a healthy control group and a group with seasonal allergies, on 47 patients.

Settings and conduct

The skin test was performed according to international protocols in a clinic under the supervision of asthma and allergy specialist. Then, up to 30 minutes after the test, the patient was examined for immediate hypersensitivity reactions. Other tests, such as electrophoresis and Western blot, were done in the research Laboratory of Birjand University of Medical Sciences,

Participants/Inclusion and exclusion criteria

Residents of Birjand who have referred to asthma and allergy specialist and Skin Prick test will be performed as a necessary diagnostic method for them and after the necessary explanations, be willing to participate in this research. Diagnosis of atopy in participants was made according to Hanifen and Rajka criteria. People who, for any reason, do not have a chance to draw blood after Skin Prick test or after test, the research team found that they were taking interfering drugs such as corticosteroids or have blood disorders with CBC and CRP factors or people with infectious diseases, cancer, immunodeficiency, and autoimmune diseases

Intervention groups

The study was performed on people who went to asthma and allergy clinic between the ages of 18 and 40

Main outcome variables

An immediate hypersensitivity reaction to the allergen may occur 15 minutes after the skin test and the patient is monitored for up to 30 minutes after the test.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201105049277N1**

Registration date: **2021-01-31, 1399/11/12**

Registration timing: **prospective**

Last update: **2021-01-31, 1399/11/12**

Update count: **0**

Registration date

2021-01-31, 1399/11/12

Registrant information

Name

sajjad chamani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 56 3243 4500

Email address

msnaghizadeh92@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-02-19, 1399/12/01

Expected recruitment end date

2021-02-25, 1399/12/07

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Allergenicity and immunochemical characterization of five plant pollens

Public title

Allergenicity and immunochemical characterization of five plant pollens

Purpose

Diagnostic

IR.BUMS.REC.1398.281

Inclusion/Exclusion criteria

Inclusion criteria:

Residents of Birjand who have referred to asthma and allergy specialist and Skin Prick test will be performed as a necessary diagnostic method for them And after the necessary explanations, be willing to participate in this research and diagnosis of atopy in participants was made according to Hanifen and Rajka criteria

Exclusion criteria:

People who, for any reason, do not have a chance to draw blood after a skin test Or after a blood test, the research team found that they were taking interfering drugs such as corticosteroids or have blood disorders with CBC and CRP factors Or people with infectious diseases, cancer or immunodeficiency, and autoimmune diseases

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **47**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Brjand University of Medical Sciences

Street address

ghafari

City

Birjand

Province

South Khorasan

Postal code

9717853577

Approval date

2019-12-09, 1398/09/18

Ethics committee reference number

Health conditions studied

1

Description of health condition studied

Allergies, allergic rhinitis

ICD-10 code

J30.1

ICD-10 code description

Allergic rhinitis due to pollen

Primary outcomes

1

Description

Skin test, wheal diameter

Timepoint

15 minutes after skin test

Method of measurement

mean wheal diameter greater than 3 mm compared to the negative control is considered as a positive answer

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: People who have been referred to an allergy clinic and Skin test were performed on them to check for sensitivity to any of the pollen extracts. These people had a positive Skin test for the pollen studied, and a Western blot test will be performed

Category

Diagnosis

2

Description

Control group: People who have been referred to an allergy clinic and Skin Prick test were performed on them to check for allergies to any of the pollen extracts. These people were not allergic to the pollen we studied

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Birjand University of Medical Sciences Clinic

Full name of responsible person

Dr. Mohammad Fereidouni

Street address

Taleghani
City
Birjand
Province
South Khorasan
Postal code
9717853577
Phone
+98 56 3239 5000
Email
public-r@bums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Birjand University of Medical Sciences
Full name of responsible person
Dr. Tooba kazemi
Street address
Ghafari
City
Birjand
Province
South Khorasan
Postal code
9717853577
Phone
+98 56 3239 5000
Email
public-r@bums.ac.ir
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Birjand University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Birjand University of Medical Sciences
Full name of responsible person
Dr mohammad Fereidouni
Position
Professor
Latest degree

Ph.D.
Other areas of specialty/work
Immunology
Street address
Ghafari
City
Birjand
Province
South Khorasan
Postal code
9718773958
Phone
+98 56 3243 4500
Email
sajadchamani@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Birjand University of Medical Sciences
Full name of responsible person
Sajjad Chamani
Position
Student
Latest degree
Master
Other areas of specialty/work
Immunology
Street address
Tohid 12
City
Birjand
Province
South Khorasan
Postal code
9718773958
Phone
+98 56 3243 4500
Email
sajadchamani@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Birjand University of Medical Sciences
Full name of responsible person
Sajjad Chamani
Position
Student
Latest degree
Master
Other areas of specialty/work
Immunology
Street address
Tohid
City
Birjand
Province
South Khorasan

Postal code

9718773958

Phone

+5632434500

Email

sajadchamani@gmail.com

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

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

The results of the study will be presented in the article

When the data will become available and for how long

After the article was published in the journal

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

Use for scientific studies

From where data/document is obtainable

Sajjad Chamani Phone number: 00989351614683

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

Send email to sajadchamani@gmail.com

Comments