

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Investigation of the effect of topical probiotic lotion on atopic dermatitis in children

Protocol summary

Study aim

Determining of the effect of a probiotic lotion containing lactobacillus reuteri strain JCM 1112 on controlling the clinical symptoms of atopic dermatitis

Design

Clinical trial with control and parallel groups, double blind and randomized

Settings and conduct

This is performed on 30 patients with atopic eczema referring to the allergy clinic of Mashhad University of Medical Sciences. Patients are randomly divided into two groups of intervention and placebo. Patients in the intervention group receive a lotion containing lactobacillus reuteri strain JCM 1112 twice a day for 4 weeks for their lesions. Patients in the placebo group are treated with a lotion similar to that of the intervention group for 4 weeks. Standard eczema treatments, including skin moisturizers and topical steroids, will be performed on all patients. At the beginning and at the end of week 4, the severity of the lesions is estimated by SCORAD index. Monthly follow-up will be done up to two months later to assess the severity of the disease and the recurrence rate through SCORAD index. In this double-blind study, participants and outcome assessors are unaware of the type of grouping and medication.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Infants and children with atopic dermatitis. Exclusion criteria: Having other allergic diseases, having other skin diseases

Intervention groups

Intervention group: In this group, patients with atopic dermatitis receive a lotion containing lactobacillus reuteri strain JCM 1112 twice a day for 4 weeks for their lesions. Control group: In this group, patients with atopic dermatitis are treated with a placebo drug which looks like the one in the intervention group twice a day for 4 weeks for their lesions. Standard treatments for eczema including skin moisturizers and topical steroids, will be performed on all patients.

Main outcome variables

Severity of lesions

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20101020004976N8**

Registration date: **2021-09-08, 1400/06/17**

Registration timing: **prospective**

Last update: **2021-09-08, 1400/06/17**

Update count: **0**

Registration date

2021-09-08, 1400/06/17

Registrant information

Name

Hamid Ahanchian

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 3801 2469

Email address

ahanchianh@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-16, 1400/06/25

Expected recruitment end date

2022-02-14, 1400/11/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Investigation of the effect of topical probiotic lotion on atopic dermatitis in children

Public title
The effect of topical probiotic lotion on atopic dermatitis in children

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Infants and children with atopic dermatitis
Exclusion criteria:
Having other allergic diseases Having other skin diseases

Age
From **1 day** old to **18 years** old

Gender
Both

Phase
3

Groups that have been masked

- Participant
- Outcome assessor

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Randomized

Randomization description
Simple randomization with table of random numbers available at "www.randomization.com" website will be used. Numbers will be placed in sealed envelopes and each envelope is assigned to one participant placing them in one of the two groups control and intervention.

Blinding (investigator's opinion)
Double blinded

Blinding description
In this study, participants are not aware of the type of treatment and the intervention. Also, outcome assessors are unaware of the grouping. Patients in the control group receive placebo drug.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Mashhad University of Medical

Sciences

Street address
Central Building of Mashhad University of Medical Sciences (Ghorshi), Daneshgah 16, Daneshgah street

City
Mashhad

Province
Razavi Khorasan

Postal code
9138813944

Approval date
2021-06-15, 1400/03/25

Ethics committee reference number
IR.MUMS.MEDICAL.REC.1400.254

Health conditions studied

1

Description of health condition studied

atopic dermatitis

ICD-10 code

L20

ICD-10 code description

Atopic dermatitis

Primary outcomes

1

Description

Severity of lesions

Timepoint

At the beginning of the study, at the end of the study in the fourth week and in the first and second months after the end of the study

Method of measurement

Severity Scoring of Atopic Dermatitis (SCORAD)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In this group, patients with atopic dermatitis receive a lotion containing lactobacillus reuteri strain JCM 1112 (produced by the school of pharmacy of Mashhad University of Medical Sciences) twice a day for 4 weeks for their lesions. Standard treatments for eczema including skin moisturizers and topical steroids, will be performed on all patients.

Category

Treatment - Drugs

2

Description

Control group: In this group, patients with atopic

dermatitis are treated with a placebo drug which is a lotion (produced by the school of pharmacy of Mashhad University of Medical Sciences) that looks like the one in the intervention group twice a day for 4 weeks for their lesions. Standard treatments for eczema including skin moisturizers and topical steroids, will be performed on all patients.

Category

Placebo

Recruitment centers**1****Recruitment center****Name of recruitment center**

Ghaem hospital

Full name of responsible person

Dr Hamid Ahanchian

Street address

Pediatric Allergy department, Ghaem hospital, Ahmad Abad Blvd, Mashhad, Iran

City

Mashhad

Province

Razavi Khorasan

Postal code

9176999311

Phone

+98 51 3840 0000

Email

ahanchianh@mums.ac.ir

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Mashhad University of Medical Sciences

Full name of responsible person

Dr. Mohsen Tafaghodi

Street address

Central Building of Mashhad University of Medical Sciences (Ghorshi), Daneshgah 16, Daneshgah street

City

Mashhad

Province

Razavi Khorasan

Postal code

9177899191

Phone

+98 51 3841 2081

Email

ramresearch@mums.ac.ir

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

Yes

Title of funding source

Mashhad 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**

Mashhad University of Medical Sciences

Full name of responsible person

Hamid Ahanchian

Position

Associate Professor

Latest degree

Subspecialist

Other areas of specialty/work

Allergy

Street address

Ghaem hospital, Ahmad Abad blvd, Mashhad iran

City

Mashhad

Province

Razavi Khorasan

Postal code

9176999311

Phone

+98 51 1801 2522

Fax**Email**

ahanchianh@mums.ac.ir

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

Mashhad University of Medical Sciences

Full name of responsible person

Hamid Ahanchian

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Web page address**Person responsible for updating data****Contact****Name of organization / entity**

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Fax**Email**

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Web page address**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

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 can be shared after patients are made unidentifiable.

When the data will become available and for how long

Data can be accessible 6 months after results are published.

To whom data/document is available

Data can be accessible through an email to the corresponding author.

Under which criteria data/document could be used

Data will be available for researchers in universities and other scientific institutes.

From where data/document is obtainable

After sending a request email to the corresponding author, data will be sent in 1 month.

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

Carrying out analysis on data is permitted.

Comments