

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Aug 2026

### Effect of topical product including Lactobacillus lysate versus placebo on the clinical symptoms in the patients with atopic dermatitis: a double-blind randomized clinical trial

#### Protocol summary

##### Study aim

To assess the effect of the topical product including Lactobacillus lysate versus placebo on the clinical symptoms in the patients with atopic dermatitis

##### Design

This is a double-blind randomized clinical trial, phase II, in which 80 eligible patients will be randomly assigned to the intervention and control groups

##### Settings and conduct

The eligible patients with atopic dermatitis who will refer to Sina Hospital in Hamadan city during the study period will be enrolled in the trial and will be randomly assigned to the intervention and control groups through the block randomization.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age of 18 to 60 years, Atopic dermatitis for at least 6 months, Involvement of at least 20% of the body surface Exclusion criteria: Pregnancy or breastfeeding, Involvement of inguinal or genital area, Bacterial infection, Psoriasis, Immunodeficiency disorder

##### Intervention groups

Intervention group 1: A topical cream containing Lactobacillus rhamnosus lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months Intervention group 2: A topical cream containing Lactobacillus plantarum lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months Intervention group 3: A topical cream containing Lactobacillus rhamnosus lysate and Lactobacillus plantarum lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months Control group: A topical cream containing placebo (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months

##### Main outcome variables

Primary outcome: Improvement of cutaneous symptoms of atopic dermatitis Secondary outcome: Sensitivity reaction due to topical cream

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20120215009014N325**

Registration date: **2019-12-19, 1398/09/28**

Registration timing: **prospective**

Last update: **2019-12-19, 1398/09/28**

Update count: **0**

##### Registration date

2019-12-19, 1398/09/28

##### Registrant information

##### Name

Jalal Poorolajal

##### Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 81 1838 0090

##### Email address

poorolajal@umsha.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2020-02-20, 1398/12/01

##### Expected recruitment end date

2021-07-23, 1400/05/01

**Actual recruitment start date**  
empty

**Actual recruitment end date**  
empty

**Trial completion date**  
empty

**Scientific title**  
Effect of topical product including Lactobacillus lysate versus placebo on the clinical symptoms in the patients with atopic dermatitis: a double-blind randomized clinical trial

**Public title**  
Effect of topical product including Lactobacillus lysate versus placebo on the clinical symptoms in the patients with atopic dermatitis

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Age of 18 to 60 years, Atopic dermatitis for at least 6 months, Involvement of at least 20% of the body surface  
**Exclusion criteria:**  
Pregnancy or breastfeeding, Involvement of inguinal or genital area, Bacterial infection, Psoriasis, Immunodeficiency disorder

**Age**  
From **18 years** old to **60 years** old

**Gender**  
Both

**Phase**  
2

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor

**Sample size**  
Target sample size: **80**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
The patients will be randomly assigned to intervention and control groups using block randomization. For this purpose, we will prepare four sheets of paper, writing on two sheets the name of the intervention and on the other two sheets the name of the control. The paper sheets will be pooled, placed in a container, and randomly drawn one at a time for each patient without replacement until all four sheets are drawn. The four paper sheets will be then placed back into the container, and this action repeated until the sample size is reached.

**Blinding (investigator's opinion)**  
Double blinded

**Blinding description**  
The shape of the medications and placebos will be perfectly the same. Therefore, patients will be unaware of the type of intervention. The physician who will examine the patients will not be aware of the

intervention. Thus, the trial will be run as double-blind.

**Placebo**  
Used

**Assignment**  
Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

##### Street address

Vice-chancellor for Research and Technology,  
Hamadan University of Medical Sciences, Shahid  
Fahmideh Ave

##### City

Hamadan

##### Province

Hamadan

##### Postal code

6517838695

#### Approval date

2019-11-23, 1398/09/02

#### Ethics committee reference number

IR.UMSHA.REC.1398.688

## 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

Improvement of cutaneous symptoms of atopic dermatitis

#### Timepoint

2 months after the intervention

#### Method of measurement

with clinical examination

## Secondary outcomes

## 1

### Description

Sensitivity reaction due to topical cream

### Timepoint

1 and 2 months after the intervention

### Method of measurement

With clinical examination

## Intervention groups

## 1

### Description

Intervention group 1: A topical cream containing Lactobacillus rhamnosus lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months

### Category

Treatment - Drugs

## 2

### Description

Intervention group 2: A topical cream containing Lactobacillus plantarum lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months

### Category

Treatment - Drugs

## 3

### Description

Intervention group 3: A topical cream containing Lactobacillus rhamnosus lysate and Lactobacillus plantarum lysate (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months

### Category

Treatment - Drugs

## 4

### Description

Control group: A topical cream containing placebo (manufactured by the laboratory of School of Pharmacy Hamadan University of Medical Sciences) twice daily for 2 months

### Category

Placebo

## Recruitment centers

## 1

### Recruitment center

#### Name of recruitment center

Sina Hospital in Hamadan city

#### Full name of responsible person

Amir Taher Ghorbani

#### Street address

Sina Hospital, Mirzadeh Eshghi Ave.

### City

Hamadan

### Province

Hamadan

### Postal code

6517838695

### Phone

+98 81 3827 4184

### Email

Taher2555@gmail.com

## Sponsors / Funding sources

## 1

### Sponsor

#### Name of organization / entity

Hamedan University of Medical Sciences

#### Full name of responsible person

Dr. Saeid Bashirian

#### Street address

Hamadan University of Medical Sciences, Shahid Fahmideh Ave

#### City

Hamadan

#### Province

Hamadan

#### Postal code

6517838695

#### Phone

+98 81 3838 0717

#### Email

info.research@umsha.ac.ir

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Hamedan 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

Hamedan University of Medical Sciences

#### Full name of responsible person

Amir Taher Ghorbani

#### Position

Student of Pharmacy

#### Latest degree

Medical doctor

**Other areas of specialty/work**

Medical Pharmacy

**Street address**

School of Pharmacy, Hamadan University of Medical Sciences, Shahid Fahmideh Ave.

**City**

Hamadan

**Province**

Hamadan

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6517838695

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+98 81 3838 0572

**Email**

Taher2555@gmail.com

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Hamedan University of Medical Sciences

**Full name of responsible person**

Dr. Fatemeh Nouri

**Position**

Pharmacologist

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Medical Pharmacy

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Fatemenouri1@gmail.com

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Hamedan University of Medical Sciences

**Full name of responsible person**

Dr. Jalal Poorolajal

**Position**

Professor of Epidemiology

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Epidemiology

**Street address**

School of Public Health, Hamadan University of Medical Sciences, Shahid Fahmideh Ave

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**Province**

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**Email**

poorolajal@umsha.ac.ir

**Sharing plan**

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

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

**Study Protocol**

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

**Statistical Analysis Plan**

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

**Informed Consent Form**

Undecided - It is not yet known if there will be 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**

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

**Data Dictionary**

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