

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

A comparative clinical trial study of the therapeutic effects and side effects of the two drugs Baricitinib and Tofacitinib in pediatric patients with Alopecia Areata

Protocol summary

Study aim

Comparison of the effects of Baricitinib and Tofacitinib in pediatric patients with alopecia areata

Design

After obtaining written consent from the parents, the patients will be randomly divided into 2 groups of 24 people based on the randomization table. The first group will be treated with tofacitinib 5 to 15 mg per day, the second group will be treated with baricitinib 2 to 4 mg per day.

Settings and conduct

After obtaining written consent from the parents, the patients will be randomly divided into 2 groups of 24 people based on the randomization table and the order of entry into the study. The first group will be treated with Tofacitinib 5 to 15 mg per day, the second group will be treated with Baricitinib 2 to 4 mg per day. Clinical and laboratory evaluation intervals will be the first month, the third month, and the sixth month.

Participants/Inclusion and exclusion criteria

This study is a clinical trial and will be conducted on 48 pediatric patients with alopecia areata referred to Razi Hospital under the age of 18. Criteria for entering the study: 1) SALT score above 20% 2) consent of the child's parent and signing the consent form to enter the clinical trial 3) possibility of regular follow-up in the clinic
Exclusion criteria: 1) Existence of underlying systemic diseases 2) Parents' lack of consent to systemic treatment 3) SALT score lower than 20

Intervention groups

This study is a clinical trial and will be conducted on 48 pediatric patients with alopecia areata referred to Razi Hospital under the age of 18. After obtaining written consent from the parents, the patients will be randomly divided into 2 groups of 24 people. The first group will be treated with tofacitinib 5 to 15 mg per day, the second group will be treated with baricitinib 2 to 4 mg per day.

Main outcome variables

Disease severity

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20240920063104N1**

Registration date: **2024-10-12, 1403/07/21**

Registration timing: **prospective**

Last update: **2024-10-12, 1403/07/21**

Update count: **0**

Registration date

2024-10-12, 1403/07/21

Registrant information

Name

Alireza Banani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 8803 3928

Email address

alirezabanani1374@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-12-21, 1403/10/01

Expected recruitment end date

2025-06-22, 1404/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
A comparative clinical trial study of the therapeutic effects and side effects of the two drugs Baricitinib and Tofacitinib in pediatric patients with Alopecia Areata

Public title
A comparative clinical trial study of the therapeutic effects and side effects of the two drugs Baricitinib and Tofacitinib in pediatric patients with Alopecia Areata

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
1) SALT score above 20% 2) Consent of the child's parent and signing of the consent form to enter the clinical trial
3) Possibility of regular follow-up in the clinic
Exclusion criteria:
Existence of underlying systemic diseases Parents' lack of satisfaction with systemic treatment SALT score lower than 20

Age
From **2 years** old to **18 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **48**

Randomization (investigator's opinion)
Randomized

Randomization description
This study is a clinical trial and will be conducted on 48 pediatric patients with alopecia areata referred to Razi Hospital under the age of 18. After obtaining written consent from the parents, the patients will be randomly divided into 2 groups of 24 people according to the randomization table. The first group will be treated with tofacitinib 5 to 15 mg per day, the second group will be treated with baricitinib 2 to 4 mg per day.

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of School of Medicine - Tehran University of Medical Sciences
Street address
No. 14, 46 Alley, Jamaluddin Asadabadi St., Yusuf Abad
City
Tehran
Province
Tehran
Postal code
1436773484

Approval date
2024-08-19, 1403/05/29

Ethics committee reference number
IR.TUMS.MEDICINE.REC.1403.215

Health conditions studied

1

Description of health condition studied
Alopecia Areata
ICD-10 code
L63
ICD-10 code description
Alopecia areata

Primary outcomes

1

Description
Comparison of the effects of Baricitinib and Tofacitinib in pediatric patients with alopecia areata
Timepoint
The beginning of the study, 1 month later, 3 months later and 6 months later
Method of measurement
According to clinical examination and SALT score

Secondary outcomes

1

Description
Comparison of the effects of baricitinib and tofacitinib in pediatric patients with alopecia areata
Timepoint
The beginning of the study, one month later, three months later and six months later
Method of measurement
Clinical examination and SALT score

Intervention groups

1

Description

Intervention group: children aged 2 to 18 years with alopecia areata receiving tofacitinib

Category

Treatment - Drugs

2

Description

Intervention group: children aged 2 to 18 years with alopecia areata receiving Baricitinib

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Razi dermatology hospital

Full name of responsible person

Dr Alireza Banani

Street address

No. 14, Alley 46, Jamaluddin Asadabadi St., Yusuf Abad

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Tehran

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Tehran

Postal code

1436773484

Phone

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Email

alirezabanani1374@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Dr. Ali Akbari Sari

Street address

No. 14, Alley 46, Jamaluddin Asadabadi St., Yusuf Abad

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Alireza Banani

Position

Dermatology resident

Latest degree

Medical doctor

Other areas of specialty/work

Dermatology

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Person responsible for scientific inquiries

Contact

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

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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

Not applicable

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

Total potential data after de-identifying individuals

When the data will become available and for how long

The access period starts 6 months after the results are published

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

Scientific and academic researchers related to the field of dermatology, provided the data source is mentioned

From where data/document is obtainable

alirezabanani1374@gmail.com

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

Emailing identification documents and purposes of receiving data to the email address: alirezabanani1374@gmail.com Estimated time to send data: 1 week

Comments