

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

02 Jul 2026

### Comparison of efficacy of combined microdermabrasion and topical Bimatoprost with topical Bimatoprost alone in vitiligo patients referred to Afzalipur Hospital in Kerman

#### Protocol summary

##### Study aim

Comparison of efficacy of combined microdermabrasion and topical Bimatoprost with topical Bimatoprost alone in vitiligo patients referred to Afzalipur Hospital in Kerman

##### Design

doubled-blind clinical trial with control group and parallel group

##### Settings and conduct

this is a double-blind clinical trial. 20 patients with vitiligo and age between 5 to 18 years attending Afzalipur hospital in Kerman enrolled the study. Two nearly symmetric lesions choose and one of them treat with combination of microdermabrasion and topical Bimatoprost and another with topical Bimatoprost alone.

##### Participants/Inclusion and exclusion criteria

inclusion criteria is age between 5 to 18 years exclusion criteria: segmental vitiligo, received treatment in last 3 months ago, pregnancy and lactation, history of hypertension and asthma, allergy to drug's components

##### Intervention groups

to case group: combination of microdermabrasion and topical Bimatoprost and to control group: topical Bimatoprost alone

##### Main outcome variables

repigmentation percentage

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20220129053866N1**

Registration date: **2022-10-02, 1401/07/10**

Registration timing: **registered\_while\_recruiting**

Last update: **2022-10-02, 1401/07/10**

Update count: **0**

##### Registration date

2022-10-02, 1401/07/10

##### Registrant information

###### Name

Sare Asna ashari

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 34 3243 4640

###### Email address

amirasna25@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-03-21, 1401/01/01

##### Expected recruitment end date

2024-03-20, 1403/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of efficacy of combined microdermabrasion and topical Bimatoprost with topical Bimatoprost alone in vitiligo patients referred to Afzalipur Hospital in Kerman

##### Public title

evaluating efficacy of combination therapy with microdermabrasion and topical Bimatoprost in comparison with topical Bimatoprost alone in vitiligo

##### Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

patients with vitiligo with age

### Exclusion criteria:

segmental vitiligo received treatment in 3 past months  
pregnancy lactation hypertension history asthma history  
allergy to drug components

## Age

From **5 years** old to **18 years** old

## Gender

Both

## Phase

2-3

## Groups that have been masked

- Outcome assessor
- Data analyser

## Sample size

Target sample size: **20**

More than 1 sample in each individual

Number of samples in each individual: **2**

two nearly symmetric and similar lesions in each patient

## Randomization (investigator's opinion)

N/A

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

this is a double-blind study for assessor(different from main physician) and analyzer.

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

ethics committee of Kerman university of medical science

##### Street address

Ebne Sina Ave,Tahmasb abad Blvd

##### City

kerman

##### Province

Kerman

##### Postal code

761614111

#### Approval date

2022-01-24, 1400/11/04

#### Ethics committee reference number

IR.KMU.AH.REC.1400.263

## Health conditions studied

### 1

#### Description of health condition studied

vitiligo

#### ICD-10 code

L80

#### ICD-10 code description

Vitiligo

## Primary outcomes

### 1

#### Description

repigmentation type

#### Timepoint

at base line and 1,2,3 and 6 months later

#### Method of measurement

physical exam

### 2

#### Description

repigmentation percentage

#### Timepoint

at base line and 1,2,3 and 6 months later

#### Method of measurement

physical exam

## Secondary outcomes

### 1

#### Description

pruritis

#### Timepoint

at base line visit and 1,2,3 and 6 months later.

#### Method of measurement

physical exam and classification of severity to mild, moderate ,severe

### 2

#### Description

scaling

#### Timepoint

at base line visit and 1,2,3 and 6 months later.

#### Method of measurement

physical exam and classification of severity to mild, moderate ,severe

### 3

#### Description

erythema

#### Timepoint

at base line visit and 1,2,3 and 6 months later.

#### Method of measurement

physical exam and classification of severity to mild, moderate ,severe

## Intervention groups

1

### Description

Intervention group: treatment with topical Bimatoprost (exilia 0.03%,inoclon company)(two times in day) and microderm abrasion (every two weeks)

### Category

Treatment - Drugs

2

### Description

Control group: treatment with topical Bimatoprost (two times in day)

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Afzalipour hospital

#### Full name of responsible person

Rezvan Amiri

#### Street address

Imam high way,Kerman

#### City

kerman

#### Province

Kerman

#### Postal code

7616913911

#### Phone

+98 34 3132 8328

#### Email

rezvanamiri1358@yahoo.com

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Kerman University of Medical Sciences

#### Full name of responsible person

abbas pardakhty

#### Street address

Ebne sina Avenue Jahad Blvd

#### City

kerman

#### Province

Kerman

#### Postal code

7619813159

#### Phone

+98 34 3226 3855

#### Email

abpardakhty@kmu.ac.ir

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Kerman 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

Kerman University of Medical Sciences

#### Full name of responsible person

Rezvan Amiri

#### Position

Assistant professor

#### Latest degree

Specialist

#### Other areas of specialty/work

Dermatology

#### Street address

Afzalipour hospital,Imam high way

#### City

kerman

#### Province

Kerman

#### Postal code

7616913911

#### Phone

+98 34 3132 8326

#### Email

rezvanamiri1358@yahoo.com

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Kerman University of Medical Sciences

#### Full name of responsible person

Rezvan Amiri

#### Position

Assistant professor

#### Latest degree

Specialist

#### Other areas of specialty/work

Dermatology

#### Street address

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**Postal code**  
761691391  
**Phone**  
+98 34 3132 8328  
**Email**  
Rezvanamiri1358@yahoo.com

## Person responsible for updating data

### Contact

**Name of organization / entity**  
Kerman University of Medical Sciences  
**Full name of responsible person**  
Rezvanamiri  
**Position**  
Assistant professor  
**Latest degree**  
Specialist  
**Other areas of specialty/work**  
Dermatology  
**Street address**  
Afzalipour hospital, Imam high way  
**City**

## 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

No - There is not a plan to make this available

### Statistical Analysis Plan

No - There is not a plan to make this available

### Informed Consent Form

No - There is not a plan to make this available

### Clinical Study Report

No - There is not a plan to make this available

### Analytic Code

No - There is not a plan to make this available

### Data Dictionary

No - There is not a plan to make this available