

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jul 2026

### Comparison of effect of NB-UVB with and without topical Latanoprost solution or placebo in Vitiligo Patients: a triple-blind clinical trial study

#### Protocol summary

##### Study aim

To compare the effect of NB-UVB with and without topical Latanoprost solution or placebo in Vitiligo Patients

##### Design

This is a triple-blind randomized clinical trial, phase II, in which 30 eligible patients will be randomly assigned to the intervention and control groups

##### Settings and conduct

The eligible patients with Vitiligo 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 drawing of lots. This trial will be triple-blinded so that neither patients nor the physician who will examine the patients and data analyzer will be aware of the intervention.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age of 12 to 70 years Vitiligo lesions with at least one lesions on each side Involving at least 20% of the body surface Exclusion criteria: Malignant skin disease Failure of the previous radiotherapy Pregnancy or breastfeeding Hepatic or renal disease Lupus Erythematosus Photosensitivity

##### Intervention groups

Intervention group: NB-UVB radiation at a dose of 0.3 J/cm<sup>2</sup> (wavelength from 311 to 313 nm) for a maximum of 3 minutes three times a week for three consecutive months with a Latanoprost solution 0.005% twice a day for three consecutive months Control group: NB-UVB radiation at a dose of 0.3 J/cm<sup>2</sup> (wavelength from 311 to 313 nm) for a maximum of 3 minutes three times a week for three consecutive months with a normal saline solution twice a day for three consecutive months

##### Main outcome variables

Improvement of Vitiligo lesions

#### General information

##### Reason for update

##### Acronym

#### IRCT registration information

IRCT registration number: **IRCT20120215009014N283**

Registration date: **2019-05-29, 1398/03/08**

Registration timing: **prospective**

Last update: **2019-05-29, 1398/03/08**

Update count: **0**

#### Registration date

2019-05-29, 1398/03/08

#### 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

2019-06-22, 1398/04/01

#### Expected recruitment end date

2019-12-22, 1398/10/01

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Comparison of effect of NB-UVB with and without topical Latanoprost solution or placebo in Vitiligo Patients: a

triple-blind clinical trial study

### Public title

Comparison of effect of NB-UVB with and without topical Latanoprost solution or placebo in Vitiligo Patients

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Age of 12 to 70 years Vitiligo lesions with at least one lesions on each sides Involving at least 20% of the body surface

#### Exclusion criteria:

Malignant skin disease Failure of previous radiotherapy Pregnancy or breastfeeding Hepatic or renal disease Lupus Erythematosus Photosensitivity

### Age

From **12 years** old to **70 years** old

### Gender

Both

### Phase

2

### Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

### Sample size

Target sample size: **30**

### Randomization (investigator's opinion)

Randomized

### Randomization description

Random assignment of the right and left sides of the patients to the intervention and control groups through the drawing of lots. To do this, we prepare two sheets and write "right" on one sheet and "left" on another. Then, by referring every patient, one of the sheets will be randomly taken. According to whether the sheet is taken right or left is assigned to the intervention group and the other side to the control group.

### Blinding (investigator's opinion)

Triple 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. The analyzer will be unaware of the type of interventions. Thus, the trial will be run as triple 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

2018-05-18, 1397/02/28

#### Ethics committee reference number

IR.UMSHA.REC.1398.165

## Health conditions studied

### 1

#### Description of health condition studied

Vitiligo

#### ICD-10 code

L80

#### ICD-10 code description

Vitiligo

## Primary outcomes

### 1

#### Description

Improvement of Vitiligo lesions

#### Timepoint

3 months after the intervention

#### Method of measurement

With physical examination

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: NB-UVB radiation at a dose of 0.3 J/cm<sup>2</sup> (wavelength from 311 to 313 nm) for a maximum of 3 minutes three times a week for three consecutive months with a Latanoprost solution 0.005% twice a day for three consecutive months

#### Category

Treatment - Drugs

## 2

### Description

Control group: NB-UVB radiation at a dose of 0.3 J/cm<sup>2</sup> (wavelength from 311 to 313 nm) for a maximum of 3 minutes three times a week for three consecutive months with a normal saline solution twice a day for three consecutive months

### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Sina Hospital in Hamadan City

##### Full name of responsible person

Dr Hanieh Karimi

##### Street address

Sina Hospital, Mirzadeh Eshghi Ave.

##### City

Hamadan

##### Province

Hamadan

##### Postal code

6517838695

##### Phone

+98 81 3827 4184

##### Email

haniehkarimi67@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

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##### Postal code

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##### 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

Dr Hanieh Karimi

##### Position

Resident of Dermatology

##### Latest degree

Medical doctor

##### Other areas of specialty/work

Dermatology

##### Street address

Sina Hospital, Mirzadeh Eshghi Ave.

##### City

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##### Province

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##### Postal code

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##### Phone

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##### Email

haniehkarimi67@gmail.com

## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Hamedan University of Medical Sciences

##### Full name of responsible person

Dr. Pedram Alirezaei

##### Position

Dermatologist

##### Latest degree

Medical doctor

##### Other areas of specialty/work

Dermatology

##### Street address

Sina Hospital, Mirzadeh Eshghi Ave.

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##### Province

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prc@umsha.ac.ir

**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**

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**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