

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of Narrow Band Ultraviolet photo therapy on serum homocystein level before and after phototherapy in patients with skin disorder

#### Protocol summary

##### Summary

Objective: To investigate the effect of Narrow Band Ultraviolet Photo Therapy On Serum Homo-cysteine Levels in Patients Referred to Yahyanegad Hospital Of Babol. Design:(Study group: patients with dermatological disorders including psoriasis, vitiligo or atopic dermatitis that are referred to photo therapy unit at Yahyanegad hospital; Sample size:30; No control group; Building: Not blinded; Randomization: Single arm study). Setting and conduct: 30 patients that are referred to photo therapy unit of the dermatology department at Yahyanegad hospital are enrolled in to the study. Serum homocysteine levels are measured in all patients at the first visit before initiating of treatment and after thirty sessions of treatment. Serum homo cysteine levels are determined using Elisa method. Software SPSS are used to analyze the results. Inclusion criteria: psoriasis or Vitiligo, which is set to be at least 30 sessions of narrow band ultraviolet photo therapy. Signing the informed consent before entering the examination Exclusion criteria: Smoking, illnesses such as hypertension, diabetes, thyroid dysfunction that may affect homocysteine levels. Use of drugs, such as vitamins, OCP and anti-coagulant, past history of cardiovascular, chronic hepatitis, chronic kidney disease, cancer and pregnancy, inflammatory bowel disease, rheumatic diseases, systemic drugs anti-psoriasis or Vitiligo, Use of natural or synthetic UV for during the months prior to admission natural or synthetic. Patients who did not complete therapy by the end of 30 sessions. Intervention: Narrow Band Ultra Violet B photo therapy; thirty session of treatment. Primary outcome variables: serum homocysteine levels; Secondary outcome variable Ultraviolet cumulative doses

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017060134286N1**  
Registration date: **2017-10-15, 1396/07/23**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2017-10-15, 1396/07/23

##### Registrant information

##### Name

Zeinab Aryanian

##### Name of organization / entity

Babol University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 11 3229 1551

##### Email address

z.aryanian@mubabol.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Babol University of Medical Sciences

##### Expected recruitment start date

2016-09-03, 1395/06/13

##### Expected recruitment end date

2018-03-22, 1397/01/02

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**

empty

**Scientific title**

The effect of Narrow Band Ultraviolet photo therapy on serum homocystein level before and after phototherapy in patients with skin disorder

**Public title**

The effect of phototherapy on serum homocystein level

**Purpose**

Prevention

**Inclusion/Exclusion criteria**

Inclusion criteria: psoriasis or Vitiligo, which is set to be at least 30 sessions of light therapy NBUVB. signing the informed consent before entering the examination  
Exclusion criteria: Smoking, illnesses such as hypertension, diabetes, thyroid dysfunction that may affect homocysteine levels. Use of drugs; such as vitamins, OCP and anti-coagulant. past history of cardiovascular, chronic hepatitis, chronic kidney disease, cancer and pregnancy, inflammatory bowel disease, rheumatic diseases. systemic drugs anti-psoriasis or Vitiligo. Use of natural or synthetic UV for during the months prior to admission natural or synthetic. Patients who did not complete therapy by the end of 30 sessions

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: 40

**Randomization (investigator's opinion)**

N/A

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Single

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Babol University of Medical Sciences

**Street address**

Vice chancellor for research of Babol University of

Medical Sciences, Babol University of Medical Sciences, Ganjafroose street, Karegar square, Babol

**City**

babol

**Postal code**

4717631367

**Approval date**

2016-10-31, 1395/08/10

**Ethics committee reference number**

mubabol.rec.1395.174

**Health conditions studied****1****Description of health condition studied**

Atopic dermatitis-vitiligo-psoriasis

**ICD-10 code**

L20-L80-L4

**ICD-10 code description**

Atopic dermatitis-vitiligo-psoriasis

**Primary outcomes****1****Description**

Serum homocystein levels

**Timepoint**

Baseline (before initiation of treatment)-after 30sessions of treatment

**Method of measurement**

Elisa

**Secondary outcomes****1****Description**

Cumulative dose

**Timepoint**

After 30 session phototherapy

**Method of measurement**

j/cm

**Intervention groups****1****Description**

Intervention group:Narrow Band UVB photo therapy; 30 sessions of treatments; No control group

**Category**

Treatment - Other

**Recruitment centers****1****Recruitment center**

**Name of recruitment center**

Dermatology department of Shahid Yahyanegad hospital

**Full name of responsible person**

Zeinab Aryanian

**Street address**

Shahid Yahyanegad hospital, Mostafa Khomeini street, Modares street, Babol

**City**

babol

**Phone**

+98 11 3219 7667

**Fax**

**Email**

z\_aryanian@yahoo.com

**Web page address**

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Babol University of Medical Sciences

**Full name of responsible person**

Zeinab Aryanian

**Position**

Assistant professor, Dermatologist

**Other areas of specialty/work**

**Street address**

Babol University of Medical Sciences, Ganjafroose street, Karegar square, Babol

**City**

babol

**Postal code**

4717631367

**Phone**

+98 11 3219 7667

**Fax**

**Email**

Z\_aryanian@yahoo.com

**Web page address**

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Vice chancellor for research, Babol University of Medical Sciences

**Full name of responsible person**

Dr. Hadi Parsiyan

**Street address**

Babol University of Medical Sciences, Ganjafroose street, Karegar square, Babol

**City**

babol

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Vice chancellor for research, Babol University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

empty

**Domestic or foreign origin**

empty

**Category of foreign source of funding**

empty

**Country of origin**

**Type of organization providing the funding**

empty

**Person responsible for general inquiries**

**Contact**

**Name of organization / entity**

Babol University of Medical Sciences

**Full name of responsible person**

Zeinab Aryanian

**Position**

Assistant professor, Dermatologist

**Other areas of specialty/work**

**Street address**

Babol University of Medical Sciences, Ganjafroose street, Karegar square, Babol

**City**

babol

**Postal code**

4717631367

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Babol University of Medical Sciences

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**Position**

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+98 11 3219 7667

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**Email**

z\_aryanian@yahoo.com

**Web page address**

**Sharing plan**

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

empty

**Study Protocol**

empty

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*