

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison of the therapeutic effect of verapamil and triamcinolone drugs and their simultaneous use with macroneedling in patients with Peyronie's plaque

#### Protocol summary

##### Study aim

Determining the therapeutic effect of verapamil and triamcinolone drugs and investigating their simultaneous use with macroneedling in patients with Peyronie's plaque.

##### Design

The study is conducted as a clinical trial with a control group, with parallel groups, double-blind, randomized, on 60 patients. RNG plugin is used for randomization in excel software.

##### Settings and conduct

60 eligible patients who were selected from the patients referred to the Shahada Tajrish Hospital clinic in Tehran were randomly assigned to the intervention group or the control group. Standard medical treatment will be given to all patients, as well as the consent form will be explained to all patients about the process of intervention and the complications caused by it. Before the intervention and after the intervention, patients' information including the size of the plaque before and after the treatment, the amount of penile curvature before and after the treatment, the amount of erectile dysfunction before and after the treatment, (IIEF-5), the amount of pain during erection(VAS)is collected.

##### Participants/Inclusion and exclusion criteria

Entry requirements: Patients with Peyronie's plaque confirmed by ultrasound referring to Tajrish Martyrs Hospital Age 20-65 years Non-entry conditions: Having a history of trauma and fracture of the penis Having a history of previous surgery on the penis Having a history of pelvic radiotherapy

##### Intervention groups

The intervention is performed by macroneedling and by a needle with a length of 8-10 mm The intervention process includes the injection of verapamil and triamcinolone drugs along with macroneedling technique 6 times a week at the site. In the control group, only

verapamil and triamcinolone injections are performed  
**Main outcome variables**  
Erectile dysfunction; Pain; Curvature of the penis

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20230408057854N1**

Registration date: **2023-05-11, 1402/02/21**

Registration timing: **prospective**

Last update: **2023-05-11, 1402/02/21**

Update count: **0**

##### Registration date

2023-05-11, 1402/02/21

##### Registrant information

##### Name

hossein rahnama

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 56 3282 2705

##### Email address

drhossein2020@sbmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-05-22, 1402/03/01

##### Expected recruitment end date

2024-05-21, 1403/03/01

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparison of the therapeutic effect of verapamil and triamcinolone drugs and their simultaneous use with macroneedling in patients with Peyronie's plaque

**Public title**

The therapeutic effect of verapamil and triamcinolone along with macroneedling in the treatment of Peyronie's plaque

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Suffering from Peyronie's plaque confirmed by ultrasound Age between 20-65 years

**Exclusion criteria:**

History of trauma and penis fracture History of previous surgery on the penis History of pelvic radiotherapy

**Age**

From **20 years** old to **65 years** old

**Gender**

Male

**Phase**

N/A

**Groups that have been masked**

- Participant
- Investigator

**Sample size**

Target sample size: **64**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

First, by using the Random number generation plugin in Excel software, a table of random numbers from 1 to 60 is prepared in a non-sequential and scattered manner, and intervention and control are done by assigning numbers to two groups of 60 people. The randomization process is done by the study methodology consultant, and the clinical researchers do not know about the randomization process, and only randomized codes from 1 to 60 will be provided to them.

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

After selecting the samples, none of the sampled people will know about randomization and the process of allocation to groups. Doctors are given a table of coded numbers in advance and patients are included in the study in the order of the numbers in the table. Therefore, the present study is double-blind. All patients receive routine medical treatment, but the macroneedling technique is performed for the case group, but this procedure is not performed for the control group.

**Placebo**

Not used

**Assignment**

Parallel

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

empty

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

Shahid Beheshti University of Medical Sciences Ethics Committee

**Street address**

Shahid Beheshti University of Medical Sciences, Taleghani Street, Valenjak

**City**

Tehran

**Province**

Tehran

**Postal code**

1989934148

**Approval date**

2022-11-29, 1401/09/08

**Ethics committee reference number**

IR.SBMU.MSP.REC.1401.452

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

Peyronie's plaque

**ICD-10 code**

N48.6

**ICD-10 code description**

Peyronie's disease

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

Peyronie's Plaque size

**Timepoint**

6 weeks after the start of treatment

**Method of measurement**

By Penile ultrasound

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

The amount of curvature of the penis

**Timepoint**

6 weeks after the start of treatment

**Method of measurement**

Objective measurement by ruler

## Intervention groups

1

### Description

Intervention group: use of macroneedling

### Category

Treatment - Other

2

### Description

Control group: Treatment with triamcinolone and verapamil

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Shohada tajrish hospital

#### Full name of responsible person

Hossein Rahnama

#### Street address

Shohada Tajrish Hospital, Shahradari St. Postal code 1989934148

#### City

Tehran

#### Province

Tehran

#### Postal code

۱۹۸۹۹۳۴۱۴۸

#### Phone

+98 21 2271 8000

#### Email

rahnama2010@gmail.com

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

nasrin khateri

#### Street address

Shohada Tajrish Hospital, Shahradari St. Postal code1989934148

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rahnama2010@gmail.com

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Shahid Beheshti 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

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Hossein Rahnama

#### Position

resident

#### Latest degree

Medical doctor

#### Other areas of specialty/work

Urology

#### Street address

Shohada Tajrish Hospital, Shahradari St. Postal code1989934148

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#### Email

rahnama2010@gmail.com

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

حسین رهنما

#### Position

Resident

#### Latest degree

Medical doctor

#### Other areas of specialty/work

Urology

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**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Hossein Rahnama

**Position**

Resident

**Latest degree**

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**Email**

rahnama2010@gmail.com

**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**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is a plan to make this available

**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**

All data is potentially shareable after de-identifying individuals

**When the data will become available and for how long**

The access period starts immediately after the results are printed

**To whom data/document is available**

All researchers

**Under which criteria data/document could be used**

Any use of documents should be done in coordination with the researcher

**From where data/document is obtainable**

Hossein Rahnama via the email address below rahnama2010@gmail.com

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

Send an email to the researcher

**Comments**