

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Comparing effect of cutaneous posterior tibial nerve stimulation with medical treatment with Solifenacin in patients with overactive bladder

Protocol summary

Study aim

Comparing effect of cutaneous posterior tibial nerve stimulation with medical treatment with Solifenacin in patients with overactive bladder

Design

In a randomized controlled clinical trial, 74 patients were included over activity bladder patients are randomly assigned to two groups of drug therapy and tibial nerve stimulation.

Settings and conduct

This study was performed at the urology clinic of Shahid Beheshti Hospital in Hamadan, Iran. The study participants were randomly divided into two groups, each with 5 mg twice daily for 12 weeks during the preparation period. The other group received treatment twice a week for 12 weeks with posterior tibial nerve stimulation in the posterior region of the medial ankle. PTNS is performed by a TENS device with 20 Hz, 200 cycles / s of normal stimulation for 30 minutes per session. At each session, patients receive a motor response that includes the flexion plantar toe. Initial results are reported as 3 days of urinary bladder questionnaire results (q-OAB), 3 months after treatment. Complications of treatment will also be reported and reported in all patients. Patients will be followed up two to one and three months after treatment to evaluate outcomes and potential complications.

Participants/Inclusion and exclusion criteria

The target groups in this study are all patients with overactive bladder referred to Beheshti Hospital of Hamedan, with a urinary recurrence complaint were diagnosed based on criteria. Minimum age of 18 years and urine culture negative are inclusion criteria and non-returning patients to follow up of intervention outcome are exclusion criteria

Intervention groups

Intervention group: Patients with overactive bladder treated by posterior tibial nerve stimulation The control group : Patients with overactive bladder treated with

medical treatment with Solifenacin

Main outcome variables

Improve urinary incontinence

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151123025202N4**

Registration date: **2019-11-28, 1398/09/07**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-28, 1398/09/07**

Update count: **0**

Registration date

2019-11-28, 1398/09/07

Registrant information

Name

Abbas Moradi

Name of organization / entity

Hamedan University of Medical Of Science

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 0097

Email address

a.moradi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-11-21, 1398/08/30

Expected recruitment end date

2020-07-21, 1399/04/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing effect of cutaneous posterior tibial nerve stimulation with medical treatment with Solifenacin in patients with overactive bladder

Public title

treatment of overactive bladder

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Clinical Diagnosis of overactive bladder minimum age of 18 years old negative result of Urine culture

Exclusion criteria:

pregnant women People with Pacemaker Inflammatory or neurological origin History of spinal cord trauma Central nervous system lesions Metabolic disease or genetic syndromes history of abdominal surgery History of pelvic fractures Eurogenital Anomalies history of taking anticholinergic drugs for six months Psychological Disorders

AgeFrom **18 years** old**Gender**

Both

Phase

3

Groups that have been masked*No information***Sample size**Target sample size: **74****Randomization (investigator's opinion)**

Randomized

Randomization description

In this study, 74 sealed envelopes will be used which in 37 letter M envelope means Medical treatment and in 37 letter S envelope mean tibial nerve stimulation. All envelopes are available for physician, after mixing randomly removed and opened . Depending on whether the envelope contains the letter M or S, the individual will be assigned to the medical treatment or tibial nerve stimulation group.

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 Hamedan University of Medical Science

Street address

Shahid Fahmideh Ave, Vice-Chancellor for Research and Technology

City

Hamedan

Province

Hamadan

Postal code

6517838697

Approval date

2019-06-14, 1398/03/24

Ethics committee reference number

IR.UMSHA.REC.1398.237

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

Over Active Bladder

ICD-10 code

N32.81

ICD-10 code description

Overactive bladder

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

Improved quality of life due to urinary incontinence three months after treatment The outcome of this study is evaluated by a standard questionnaire.

Timepoint

1 and 3 months after treatment

Method of measurement

The q-OAB questionnaire will be used to collect the frequency of urinary frequency, urgency, and urgency incontinence for 3 days. q-OAB is a quality of life questionnaire designed to assess symptoms of health-related symptoms and quality of life (HRQL) in patients with or without incontinence and OAB. q-OAB contains 4 subset include social, interaction, concern, coping and HRQL

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

Improving patients' quality of life is a secondary outcome of this study

Timepoint

1 and 3 months after treatment onset

Method of measurement

Outcomes are measured using the summary form of the Bladder Hyperactivity Questionnaire, which contains 25 questions. The questionnaire consists of two parts: 6 questions (symptoms of bladder hyperactivity) and 19 questions (quality of life associated with bladder hyperactivity).

Intervention groups

1

Description

Intervention group:

Category

Rehabilitation

2

Description

Control group: Receiving Solifenacin is given 5 mg twice daily for 12 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti hospital

Full name of responsible person

dr Mohammadreza Niko

Street address

Eram Blv, Ghaem Sq, Hamedan, Iran

City

Hamedan

Province

Hamadan

Postal code

6517953371

Phone

+98 81 3838 0283

Email

Shahidbeheshti@umsha.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

dr Saeid Bashirian

Street address

Shahid Fahmide Ave

City

Hamedan

Province

Hamadan

Postal code

6517838677

Phone

+98 81 3838 0717

Fax

+98 81 3838 0130

Email

vc_research@umsha.ac.ir

Web page address

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

Abbas Moradi

Position

Coach

Latest degree

Master

Other areas of specialty/work

Epidemiology

Street address

Hamedan shahid fahmideh street medicine school

City

Hamadan

Province

Hamadan

Postal code

6515974544

Phone

+98 81 3838 0097

Fax

+98 81 3838 0208

Email

a.moradi@umsha.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences
Full name of responsible person
 Mohammadreza Niko
Position
 Anesthesiology MD
Latest degree
 Specialist
Other areas of specialty/work
 Physical Medicine
Street address
 Shahid Fahmideh Ave, Faculty of Medicine
City
 Hamadan
Province
 Hamadan
Postal code
 6517838736
Phone
 +98 81 3838 0092
Fax
Email
 mohammadrezanikoo@yahoo.com
Web page address

Person responsible for updating data

Contact

Name of organization / entity
 Hamedan University of Medical Sciences
Full name of responsible person
 Abbas Moradi
Position
 کارمند
Latest degree
 Master
Other areas of specialty/work
 Epidemiology
Street address
 Hamedan shahid fahmideh street medicine school
City
 Hamadan

Province
 Hamadan
Postal code
 6515974544
Phone
 +98 81 3838 0097
Fax
 +98 81 3838 0208
Email
 a.moradi@umsha.ac.ir

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

No - There is not 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

Objectives and methods of the study can be published

When the data will become available and for how long

From 6 months after printing the results

To whom data/document is available

Medical science researchers

Under which criteria data/document could be used

It is permissible to cite the source

From where data/document is obtainable

Correspondence email

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

Send and receive email

Comments