

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jul 2026

Study the effects of memantine on pain control and post herpetic neuralgia (PHN) in patients with shingles; Double blind randomized clinical trial

Protocol summary

Study aim

The study of memantine effect on the treatment of post herpetic neuralgia (PHN)

Design

Randomized, blinded, clinical trial include 16 patients; phase 3

Settings and conduct

This study is conducted on patients with shingles and post herpetic neuralgia. The patients who refer to Endocrinology Clinic of Imam Reza Hospital were randomly divided into two groups of intervention and control groups (8 patient in each group). In the intervention group, memantine was coadministered with other drugs administered in the first week at a dose of 5 mg twice daily and then 10 mg twice daily up to 8 weeks. In the control group, other commonly prescribed drugs other than memantine are prescribed to the patient. After completing the pain questionnaire and warm-cold and presence of pain the researcher performed the efficacy of memantine in controlling pain will be assessed. The participants (patients) and the researcher who have the task of sampling in the study are all blind during the study.

Participants/Inclusion and exclusion criteria

Patients with diagnosis of post herpetic neuralgia who have been suffering from painful rash for maximum 4 weeks and aged 18 to 75 years old. Exclusion criteria: Patients with diabetes-induced neuropathy; Patients with cardiovascular disease; Patients with epilepsy; Patients with hepatic failure

Intervention groups

Intervention group: Will be received routine treatment and memantine 5 mg twice daily in the first week and received memantine 10 mg from week 2 to week 8 twice daily Control group: Routine treatment

Main outcome variables

Pain; numbness; Heat and cold sensation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180404039187N6**

Registration date: **2020-01-31, 1398/11/11**

Registration timing: **retrospective**

Last update: **2020-01-31, 1398/11/11**

Update count: **0**

Registration date

2020-01-31, 1398/11/11

Registrant information

Name

Elnaz Shaseb

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 41 1337 2250

Email address

shasebe@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-05-15, 1398/02/25

Expected recruitment end date

2019-11-22, 1398/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study the effects of memantine on pain control and post herpetic neuralgia (PHN) in patients with shingles;
Double blind randomized clinical trial

Public title

Evaluation of the effect of memantine on post herpetic neuralgia (PHN)

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients aged 18 to 75 years Patients who have been suffering from painful rash for maximum 4 weeks in these patients and treated with herpes neuralgia medications

Exclusion criteria:

Patients with diabetes-induced neuropathy Patients with cardiovascular disease Patients with epilepsy Patients with hepatic failure

Age

From **18 years** old to **75 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **16**

Randomization (investigator's opinion)

Randomized

Randomization description

Arrangement of the randomization process: 1) Determining the volume of each block (quadruple blocks) 2) Preparing the list of the blocks and assigning a number to each of them AABB(1) ABAB(2) ABBA(3) BBAA(4) BABA(5) BAAB(6) 3) Choosing random numbers between 1 and 6 4) Defining the treatment assignment list For example: AABB(1)_BBAA(4)_ABAB(2)_BABA(5)

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 Tabriz University of Medical Sciences

Street address

Research & Technology Dept, Central Building No. 2, Third Floor, Tabriz University of Medical Sciences, Golghast St, Tabriz

City

Tabriz

Province

East Azarbaijan

Postal code

5166614766

Approval date

2019-05-06, 1398/02/16

Ethics committee reference number

IR.TBZMED.REC.1398.135

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

Post Herpetic Neuralgia

ICD-10 code

G61.9

ICD-10 code description

Polyneuropathy, unspecified

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

Change in heat and cold sensation

Timepoint

At the beginning and 8 weeks later

Method of measurement

Using a thermal probe

2**Description**

Pain and numbness on the location of rash

Timepoint

At the beginning and 8 weeks later

Method of measurement

DN4 questionnaire

Secondary outcomes

empty

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

Intervention group: Memantine 5 mg twice daily in the first week and then 10 mg twice daily upto 8 weeks along with Routin treatment (Tab Acetaminophen 500 mg up to 4 times a day and Nortriptyline 10 mg up to twice daily for 8 weeks)

Category

Treatment - Drugs

2

Description

Control group: Routin treatment (Tab Acetaminophen 500 mg up to 4 times a day and Nortriptyline 10 mg up to twice daily for 8 weeks)

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina hospital

Full name of responsible person

Elnaz Shaseb

Street address

Sina Hospital, Hafez Sq., Azadi Ave.,

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Abolghasem Jouyban

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz 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

Tabriz University of Medical Sciences

Full name of responsible person

Elnaz Shaseb

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Person responsible for scientific inquiries

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Position

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Person responsible for updating data**Contact****Name of organization / entity**

Tabriz University of Medical Sciences

Full name of responsible person

abolfazl asdaghi

Position

Student

Latest degree

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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

No - There is not a plan to make this available