

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

Study of the effect of 6 % Gabapentin topical cream on uremic pruritus in maintenance hemodialysis patients a randomized double-blind placebo controlled clinical trial

Protocol summary

Study aim

Investigating the effect of 6% Gabapentin topical cream on uremic pruritus in chronic hemodialysis patients

Design

The clinical trial has a control group, with parallel groups, double-blind, randomized, on 68 patients. Randomization is done with <https://www.sealedenvelope.com>.

Settings and conduct

The study will be conducted at Razi Hospital in Rasht. The study will be conducted in two intervention and control groups. Participants and researchers will be blinded.

Participants/Inclusion and exclusion criteria

Inclusion criteria: patients over 18 years of age undergoing hemodialysis treatment (at least 2 times a week and for at least 8 weeks) who scored higher than 5 on the 11-point VAS scale, were included in the study after obtaining informed consent. Exclusion criteria: patients who have been treated with antihistamines and emollients, patient sensitivity to gabapentin or placebo, pregnancy, breastfeeding.

Intervention groups

Each patient is given a jar for 30 days. Group A receives gabapentin cream and group B receives placebo. Then the patients are asked to use 2 grams of the cream on the itchy area at night.

Main outcome variables

Duration of itching throughout the day, intensity of itching, quality of sleep, quality of social relationships, quality of presence at work or home or school and the number of areas affected by itching.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220516054879N8**

Registration date: **2023-11-04, 1402/08/13**

Registration timing: **registered_while_recruiting**

Last update: **2023-11-04, 1402/08/13**

Update count: **0**

Registration date

2023-11-04, 1402/08/13

Registrant information

Name

maryam shahrokhi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 13 3336 9026

Email address

mshahrokhi@gums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-10-20, 1402/07/28

Expected recruitment end date

2024-04-16, 1403/01/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of the effect of 6 % Gabapentin topical cream on uremic pruritus in maintenance hemodialysis patients a randomized double-blind placebo controlled clinical trial

Public title

Effects of topical Gabapentin 6% cream and placebo on uremic pruritus in hemodialysis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients over 18 years old who are undergoing hemodialysis treatment (at least 2 times a week and for at least 8 weeks). Patients who scored higher than 5 in the 11-point VAS scale. Obtaining informed consent

Exclusion criteria:

Patients who have been treated with antihistamines and emollients. Patient sensitivity to gabapentin or placebo
Pregnancy Breastfeeding

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **68**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be entered into each of the 2 drug (A) and placebo (B) treatment groups using the block randomization method with a ratio of 1:1. Randomization will be done in such a way that each patient will be assigned number 1 to 68. Then a table that has 17 rows called blocks and each block will have 4 parts and each part will be named A and B will be considered. In the next step, the numbers are placed in each house in order. After all the numbers are placed in the blocks, the people who have numbers in house A will receive the drug and the people who have numbers in house B will receive placebo. The website <https://www.sealedenvelope.com> is used for randomization. For allocation concealment, opaque-sealed envelopes will be used.

Blinding (investigator's opinion)

Double blinded

Blinding description

This is a double-blind study. The type of treatment will be placed inside a sealed envelope and delivered to the nurse and statistical analyst. The researcher and the participant will be blind.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Guilan University of Medical Sciences

Street address

Deputy of research and technology, In front of 17 shahrivar hospital, Shaid siadati street, Namjoo street, Rasht

City

Rasht

Province

Guilan

Postal code

4193713111

Approval date

2023-10-18, 1402/07/26

Ethics committee reference number

IR.GUMS.REC.1402.374

Health conditions studied

1

Description of health condition studied

Uremic pruritus

ICD-10 code

L29.9

ICD-10 code description

Pruritus, unspecified

Primary outcomes

1

Description

Duration of itching during the day and night

Timepoint

The duration of itching during the day and night is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

2

Description

Intensity of itching

Timepoint

The intensity of itching is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

3

Description

sleep quality

Timepoint

The effect of itching on sleep quality is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

4

Description

Quality of social relationships

Timepoint

The effect of itching on the quality of social relationships is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

5

Description

Quality of presence at work or home

Timepoint

The effect of itching on the quality of being at work or at home is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

6

Description

The number of areas affected by itching

Timepoint

The effect of the number of areas affected by itching is measured at the beginning of the study and then in the second and fourth weeks.

Method of measurement

Based on questions from the patient using the 5D-itch questionnaire

Secondary outcomes

1

Description

General condition of uremic itching in patients during one month

Timepoint

The general condition of uremic itching of patients is measured at the beginning of the treatment and then in the second and fourth weeks.

Method of measurement

Based on asking the patient using the VAS scale

Intervention groups

1

Description

Intervention group: Receiving a 6% gabapentin topical cream once a day for 1 month

Category

Treatment - Drugs

2

Description

Control group: Receiving a placebo (cold cream) once a day for 1 month

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Razi Hospital

Full name of responsible person

Maryam Shahrokhi

Street address

Modafean Salamat Blvd, Razi Educational Remedial & Research Center

City

Rasht

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Guilan

Postal code

41448 95655

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Email

razi.hospital@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Rasht University of Medical Sciences

Full name of responsible person

محمد رضا نقی پور

Street address

In front of 17 shahrivar Hospital, Shahid Siadati Street, Namjoo Street

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Phone

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Email

research@gums.ac.ir

Grant name

Grant code / Reference number
Is the source of funding the same sponsor organization/entity?

No

Title of funding source

Rasht 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

Rasht University of Medical Sciences

Full name of responsible person

Maryam Shahrokhi

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Medical Pharmacy

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

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Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Rasht University of Medical Sciences

Full name of responsible person

Sabah Sadat Moraghebi

Position

Pharmacy Student

Latest degree

Medical doctor

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Medical Pharmacy

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Patient privacy and ethical principles

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

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The results of the study will be available to everyone, specific information will be available only to the treatment staff. To protect the patient's privacy, the patient's information will be protected by the researcher.

When the data will become available and for how long

There is currently no plan to publish the data, but if published, it will be 6 months after the results are published.

To whom data/document is available

Researchers who are active in this field - Nephrologists and scientific and qualified people

Under which criteria data/document could be used

Physicians and researchers will have the right to request, there are restrictions on patient privacy and medical ethics

From where data/document is obtainable

Dr. Maryam Shahrokhi, razi Hospital, Rasht; Sabah Sadat Moraghebi School of Pharmacy guilan university of medical science

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

Refer to the razi Hospital in Rasht and sign the application form, then meet with the project researcher and review the client's request - consult with the Medical Ethics Committee, then provide documentation

Comments