

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

03 Aug 2026

### Evaluation of the effect of using prophylaxis paste on dentin hypersensitivity following non-surgical periodontal therapy with manual and ultrasonic instruments

#### Protocol summary

##### Study aim

The main objective: Determining the effect of brushing after scaling and root planing using manual instruments and ultrasonic device On the dentin sensitivity.

##### Design

After scaling the patients, the sensitivity checked with probes and air force on the first day, the first and the fourth week.

##### Settings and conduct

24 patients with periodontitis referred to the periodontology department of the School of Dentistry, University of Medical Sciences Qom have visited, on all fours The patient quadrant, the work is done. Scaling with manual with brushing with prophylaxis paste Scaling with manual without brushes with prophylaxis paste Ultrasonic scaling with brushing with prophylaxis paste Ultrasonic scaling without brushing with prophylaxis paste

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients with mild to moderate chronic periodontitis Systemic disease affecting the response to periodontal treatment Patients with chronic periodontitis who require periodic (non-surgical) periodontal treatment in four quadrants with They have homologous and control teeth. Age range between 20-40 Exclusion criteria: Taking drugs that affect the response to periodontal treatment in the last 1 month Receiving periodontal treatments that include subgingival mass removal in the last 1 month Presence of caries and restorations of retentive Plate Changes in pulp and periapical position during the study Being under orthodontic treatment Smoking and tobacco Pregnancy

##### Intervention groups

Sensitivity is observed in patients after scaling. In this study, the degree of sensitivity was examined. It is paid in different ways

##### Main outcome variables

Dental sensitivity,Gender:Prophylaxis paste,Type of device used for scaling and root leveling,Index plate,Cal,Envelope depth,gingival index

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210808052108N1**

Registration date: **2022-09-19, 1401/06/28**

Registration timing: **prospective**

Last update: **2022-09-19, 1401/06/28**

Update count: **0**

##### Registration date

2022-09-19, 1401/06/28

##### Registrant information

##### Name

Mitra Ganji kahaki

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 25 3291 1153

##### Email address

mi.ganji74@gmail.com

##### Recruitment status

##### Recruitment complete

##### Funding source

##### Expected recruitment start date

2022-09-24, 1401/07/02

##### Expected recruitment end date

2022-12-23, 1401/10/02

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Evaluation of the effect of using prophylaxis paste on dentin hypersensitivity following non-surgical periodontal therapy with manual and ultrasonic instruments

**Public title**

Evaluation of the effect of using prophylaxis paste on dentin hypersensitivity following non-surgical periodontal therapy with manual and ultrasonic instruments

**Purpose**

Diagnostic

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

Systemic disease affecting the response to periodontal treatment Patients with mild to moderate chronic periodontitis Chronic periodontitis patients who require periodic (non-surgical) periodontal treatment in four quadrants with homologous and control teeth.

**Exclusion criteria:**

Use of drugs affecting the response to periodontal treatment in the last 1 month Receiving periodontal treatments that include removal of subgingival mass in the last 1 month The presence of caries and retentive plaque repairs Occurrence of change in pulp and periapical condition during the study Undergoing orthodontic treatment Smoking and tobacco use pregnancy

**Age**From **20 years** old to **50 years** old**Gender**

Both

**Phase**

N/A

**Groups that have been masked***No information***Sample size**Target sample size: **24****Randomization (investigator's opinion)**

Randomized

**Randomization description**

At first, it is determined what treatment should be done for each quadrant in the first person, and then the place of the quadrants is changed clockwise in the next people.

**Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features**

Studying is not a unique characteristic.

**Secondary Ids**

empty

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

Ethics Working Group of Qom University of Medical Sciences

**Street address**

Saheli Street, next to Justice, Medical Sciences Complex, School of Dentistry

**City**

Qom

**Province**

Ghoum

**Postal code**

3713649367

**Approval date**

2022-03-09, 1400/12/18

**Ethics committee reference number**

IR.MUQ.REC.1400.235

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

Chronic periodontitis

**ICD-10 code**

K05.3

**ICD-10 code description**

Chronic periodontitis

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

sensitivity

**Timepoint**

First day, first week, second week and fourth week

**Method of measurement**

Visual Anologue scale

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

Comparison the methods

**Timepoint**

First day, first week, second week, fourth week

**Method of measurement**

Visual analogue scale

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

Intervention group:The use of prophylactic paste with

golchadent brand is done randomly on the right or left half of the patient's mouth once after scaling, and the sensitivity is checked on the first day, the first week, and the second and fourth weeks.

**Category**

Treatment - Devices

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Qom University of Medical Sciences

**Full name of responsible person**

Dr mohamad medi zade

**Street address**

Qom Dental school, shahid lavasani st.

**City**

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**Province**

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**Phone**

+98 25 3770 0094

**Email**

mi.ganji74@gmail.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Ghoum University of Medical Sciences

**Full name of responsible person**

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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**

Ghoum 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**

Ghoum University of Medical Sciences

**Full name of responsible person**

Dr samaneh soltani

**Position**

Dentistry student

**Latest degree**

A Level or less

**Other areas of specialty/work**

Dentistry

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Ghoum University of Medical Sciences

**Full name of responsible person**

Dr samane soltani

**Position**

Faculty Dentist

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

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## Person responsible for updating data

### Contact

**Name of organization / entity**

Ghoum University of Medical Sciences

**Full name of responsible person**

Dr samaneh soltani

**Position**

Faculty Dentist

**Latest degree**

Specialist

**Other areas of specialty/work**

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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**

Undecided - It is not yet known if there will be a plan to make this available