Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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

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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 Anslogue 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
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Qom Dental school, shahid lavasani st.
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Sponsors / Funding sources

1

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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
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Specialist
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Person responsible for updating data

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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