Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparative evaluation of immediate effect of root instrumentation with curettes and ultrasonic scalers on Clinical Attachment Level

Protocol summary

Summary

Aim: Comparison of immediate effect of root instrumentation with curettes and ultrasonic scalers on Clinical Attachment Level in patients referring to Department of Periodontics, Dental Branch, Islamic Azad University of Tehran Design: Single blinded randomized clinical trial Setting: The eligible patients with moderate chronic periodontitis, presenting probing depths of 3.5-6.5 mm on two anterior teeth, upper or lower , will be selected and teeth will be randomly assigned to two different treatment groups of ultrasonic scaler and Gracey curettes. The selected teeth will be probed with a pressure sensitive probe, guided by an occlusal stent and subjected to scaling and root planing and immediately following instrumentation , teeth probed again. Inclusion criteria: Existing a pair of bilateral anterior teeth in maxilla and mandible Exclusion criteria: Usage of the drug which makes intervention with tissue metabolic reaction such as: Verapamil, Nifedipine, Phenytoin; Needs to antibiotic prophylaxis in order to do probing and it’s related treatments Intervention (a): Subgingival instrumentation will be done with an ultrasonic scaler. Intervention (b): Subgingival instrumentation will be done with an Gracey curettes Primary outcome: Clinical Attachment Level based on distance from pocket base to occlusal edge Secondary outcome: Trauma from Instrumentation based on difference between Relative Attachment Level immediately before and after instrumentation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013080314255N1**
Registration date: **2014-02-17, 1392/11/28**
Registration timing: **retrospective**
Last update:
Update count: **0**

Registration date

2014-02-17, 1392/11/28

Registrant information

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Fatemeh Sarlati
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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2011-01-21, 1389/11/01

Expected recruitment end date

2011-07-23, 1390/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of immediate effect of root instrumentation with curettes and ultrasonic scalers on Clinical Attachment Level

Public title

Comparison of subgingival scaling effect with curettes and ultrasonic scalers

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Existing a pair of bilateral anterior teeth in maxilla and mandible Exclusion criteria: Usage of the drug which makes intervention with tissue metabolic reaction such as: Verapamil, Nifedipine, Phenytoin; Needs to antibiotic prophylaxis in order to do probing and it’s related treatments

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **15**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethical Committee of Dental Branch, Islamic Azad University of Tehran

Street address

Postcode: 19585175, Periodontics Department, Dental Branch, Islamic Azad University,Tenth Neyestan, Pasdaran,Tehran, Iran

City

Tehran

Postal code

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Approval date

2006-11-14, 1385/08/23

Ethics committee reference number

11082

Health conditions studied

1

Description of health condition studied

Periodontal Attachment loss

ICD-10 code

K05.3

ICD-10 code description

Chronic Priodontitis

Primary outcomes

1

Description

Clinical attachment level

Timepoint

Immidiately Before and after treament

Method of measurement

Quantitative measurement of distance from pocket base to edge of occlusal stent in milimeters

Secondary outcomes

1

Description

Trauma from Instrumentation

Timepoint

Immediately Before and After Treatment

Method of measurement

Based on difference between Relative Attachment Level

Intervention groups

1

Description

Ultrasonic scaling Group : That subgingival instrumentation will be done with an Hu-Friedy ultrasonic scaler

Category

Treatment - Devices

2

Description

Curette Scaling Group: That subgingival instrumentation will be done with an Hu-Friedy 5/6 Gracey curettes

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Dental Branch, Islamic Azad Univercity of Tehran

Full name of responsible person

Dr Fatemeh Sarlati

Street address

Postcode: 19585175, Periodontics Department, Dental Branch, Islamic Azad University,Tenth Neyestan, Pasdaran,Tehran, Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Investigator

Full name of responsible person

Investigator

Street address

Postcode:853, Endodontics Department, School of Dentistry,Ganj Afrooz Street, Babol, Iran

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Babol

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Investigator

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr Narges Simdar

Position

Resident

Other areas of specialty/work

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Person responsible for scientific inquiries

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty