

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Jun 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

###### Name

Fatemeh Sarlati

###### Name of organization / entity

Dental Branch, Islamic Azad University of Tehran

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 2256 4571

###### Email address

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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**

19585175

##### **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 Periodontitis

## **Primary outcomes**

### 1

#### **Description**

Clinical attachment level

#### **Timepoint**

Immediately Before and after treatment

#### **Method of measurement**

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

## **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 University 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

##### **City**

## 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

**City**

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

### Contact

**Name of organization / entity**

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Associated professor/ Periodontist

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## Person responsible for updating data

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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*