

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Evaluation of localized ibuprofen gel compared with placebo for inhibition of bone loss in chronic periodontitis.

Protocol summary

Summary

Aim: To evaluate the effect of ibuprofen gel, and placebo for inhibition of bone loss in chronic periodontitis.

Materials and Methods: In this study of 22 patients with no systemic disease and periodontal probing depth at a rate of at least 4 mm were participated in the study, periodontal parameters (plaque, bleeding on probing and pocket depth) were recorded at baseline and every 15 days for 3 months. The patients were treated with scaling and rootplaning at the baseline; Oral hygiene instructions were given that included brushing twice-daily, (Using the Bass brushing technique for at least 2 minutes), And then each side of the mandible of the patients were randomly divided into two groups, and Then each side of the mandible of the patients were randomly divided into two groups, The experimental group: receiving 2% ibuprofen gel (Diomed Pharmaceutical Company-U.K) and The control group: receiving placebo; 0.5 ml of the gel (Ibuprofen or Placebo) which were inserted into the periodontal pocket using an insulin syringe respectively, Repeated to the both groups every 15 days for 3 months; The clinical and radiographic parameters are evaluated after completion clinical trial .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050517587N1**

Registration date: **2014-06-17, 1393/03/27**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-06-17, 1393/03/27

Registrant information

Name

Amirhossein Farahmand

Name of organization / entity

Dental Branch Islamic Azad University of Tehran

Country

Iran (Islamic Republic of)

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perio-implant@hotmail.com

Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2012-10-16, 1391/07/25

Expected recruitment end date

2013-12-16, 1392/09/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of localized ibuprofen gel compared with placebo for inhibition of bone loss in chronic periodontitis.

Public title

Randomized, double blind, placebo controlled clinical study to evaluate of topical ibuprofen gel for the inhibition of bone loss in chronic periodontitis.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Systemically healthy patients with chronic periodontitis with periodontal pockets 4

millimeters deep or more at the both sides of posterior teeth in Mandibular Jaw. Exclusion Criteria: Existing systemic disease; Pregnancy; Lactation; Smokers; Patients who had taken any kind of medication during the previous six months; No periodontal treatment the previous six months; Hypersensitive to Ibuprofen; Orthodontic treatment; Cancer and Chemotherapy; Numerous large caries; The use of any mouthwash during the study.

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 22

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics Committee of Dental Branch, Islamic Azad University of Tehran

Street address

No 4, 10th Neyestan, Pasdaran Ave, Tehran, Iran

City

Tehran

Postal code

19585/175

Approval date

2011-09-23, 1390/07/01

Ethics committee reference number

508

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

Periodontal diseases

ICD-10 code

K05.3

ICD-10 code description

Periodontal diseases

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

Pocket depth

Timepoint

15 Days

Method of measurement

Periodontal Probe

2**Description**

Bleeding on probing

Timepoint

15

Method of measurement

Periodontal Probe

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

Increased alveolar bone density

Timepoint

3 months

Method of measurement

Bone densitometer machine

2**Description**

Reduction of plaque index

Timepoint

3 Months

Method of measurement

Loe & Silness Index

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

The ibuprofen gel (Diomed Pharmaceutical Company-England); which be put into the periodontal pocket using an insulin syringe .

Category

Treatment - Drugs

2**Description**

The placebo gel of was prepared in the same manner but without the active drug in it; (made of faculty of Islamic Azad University of Pharmaceutical Sciences); which be put into the periodontal pocket using an insulin syringe.

Category

Placebo

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

Dental Branch, Islamic Azad University of Tehran

Full name of responsible person

Amirhossein Farahmand

Street address

No4, 10th Neyestan Alley, Pasdaran Ave,Tehran, Iran

City

Tehran

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

Deputy of Research Council Of Dental Branch, Islamic Azad University of Tehran

Full name of responsible person

Amirhossein Farahmand

Street address

No 4, 10th Neyestan Alley, Pasdaran Ave,Tehran, Iran

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Tehran

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

Yes

Title of funding source

Deputy of Research Council Of Dental Branch, Islamic Azad University of Tehran

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**

Dental Branch, Islamic Azad University of Tehran

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Position

Periodontologist, Implantologist

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Web page address**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