

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

A comparative evaluation of the effect of sub-gingival irrigation with ibuprofen 2% mouthwash in treatment of periodontal diseases.

Protocol summary

Summary

Aim : Use an ibuprofen mouthwash 2% irrigate subgingival in improving progression of periodontal diseases can be evaluated. Materials and Methods: 22 patients with chronic periodontitis without any systemic disease who have had periodontal disease, and 2 molars that have periodontal pockets deeper than 4 mm on either side of the lower jaw have the clinical examinations. Interventions: For patients who participated in this study, subjects who received oral hygiene instruction and scaling root planing (SRP), After 2 weeks, They were divided into two groups as determined by randomization in this study, Experimental group: ibuprofen 2% mouthwash (made from the Faculty of Pharmaceutical Sciences, Islamic Azad University, Tehran), Control group: placebo, Sub-gingival Irrigation of ibuprofen 2% mouthwash with an insulin syringe 0.5 ml were rinsed, Clinical measurements including probing depth (PD), clinical attachment levels (CAL), Plaque Index (PI), and Bleeding Index (BI) were recorded and the patients were recalled per once every 2 weeks for 3 months is repetitive, and at the end of 3 months, were evaluated changes in clinical periodontal parameters .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050917587N4**

Registration date: **2014-07-07, 1393/04/16**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-07-07, 1393/04/16

Registrant information

Name

Amirhossein Farahmand

Name of organization / entity

Dental Branch Islamic Azad University of Tehran

Country

Iran (Islamic Republic of)

Phone

+98 21 2284 9604

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perio-implant@hotmail.com

Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2013-11-01, 1392/08/10

Expected recruitment end date

2015-09-01, 1394/06/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparative evaluation of the effect of sub-gingival irrigation with ibuprofen 2% mouthwash in treatment of periodontal diseases.

Public title

A Randomized, Double-Blind, split-mouth, Placebo-controlled, clinical trial of the effect of sub-gingival irrigation with ibuprofen mouthwash in treatment of periodontal Diseases

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: The patients systemically healthy were selected for the study. The subjects had with periodontal

pocket depths of more than 4 mm on at least two teeth in mandibular molar area that observed on probing.
Exclusion Criteria: Existing systemic disease; Hypersensitive to Ibuprofen; The use of any Antibiotic or Anti-inflammatory drugs within the 6 months preceding the beginning of the study; Cancer; Pregnant or nursing females; Smoking; Orthodontic treatments; Extensive dental restorations; Use removal denture; Mouth rinses; during the entire period of the study.

Age

From **10 years** old

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

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

City

Tehran

Postal code

19585/175

Approval date

2010-08-20, 1389/05/29

Ethics committee reference number

2161

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

Clinical attachment level

Timepoint

15 Days

Method of measurement

Periodontal probe

Secondary outcomes

1

Description

Reduction of bleeding on probing

Timepoint

3 Months

Method of measurement

Periodontal probe

2

Description

Reduction of Plaque Index

Timepoint

3 Months

Method of measurement

Loe & Silness Index

Intervention groups

1

Description

Ibuprofen 2% mouthwash (made from the Faculty of Pharmaceutical Sciences, Islamic Azad University, Tehran)

Category

Treatment - Drugs

2

Description

Placebo Mouthwash (Made by the Faculty of Pharmaceutical Sciences, Islamic Azad University of Tehran)

Category

Treatment - Drugs

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, Pasdarn Ave, Tehran, Iran

City

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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

City

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

Full name of responsible person

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Position

Periodontologist and Implantologist

Other areas of specialty/work

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Position

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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