

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

Efficacy of subgingivally delivered Doxycycline plus ketoprofen gel as an adjunct to non-surgical treatment of chronic Periodontitis

Protocol summary

Summary

Objectives: The aim of the present clinical study was to evaluate the efficacy of doxycycline 3% plus ketoprofen 2.5% as an adjunct to scaling and root planing in the treatment of chronic periodontitis. Material and Methods: 20 systemically healthy, chronic periodontitis patients were included in the study. The Patients were selected on the basis of having chronic periodontitis with periodontal pocket depths of more than 4mm on at least two teeth in mandibular molar area; Periodontal parameters (plaque, bleeding on probing and pocket depth) were recorded at baseline and every 15 days for 3 months. Oral hygiene instructions were given that included brushing twice-daily, (Using the Bass brushing technique for at least 2 minutes), Randomly divided two groups, Test group: was treated by scaling and root planing Followed by local delivery of doxycycline 3%+ ketoprofen 2.5%, While the control group: was treated by scaling and root planing along with ketoprofen 2.5%; and was administered to the both groups every 15 days for 3 months, repeated. Every 15 days once periodontal parameters were assessed, and at the end of 3 months, evaluated the clinical parameters changes.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050717587N2**

Registration date: **2014-06-23, 1393/04/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-06-23, 1393/04/02

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

Email address

perio-implant@hotmail.com

Recruitment status

Recruitment complete

Funding source

investigator

Expected recruitment start date

2012-06-16, 1391/03/27

Expected recruitment end date

2013-07-13, 1392/04/22

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of subgingivally delivered Doxycycline plus ketoprofen gel as an adjunct to non-surgical treatment of chronic Periodontitis

Public title

Randomized, double blind, placebo controlled clinical trial of compare with Doxycycline plus ketoprofen gel in Chronic Periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: adult patients, older than 18 years old, systemically healthy, and having at least 20 teeth.

Exclusion criteria: patients with cavitated caries, no

periodontal pockets larger than 4 mm, orthodontic appliances or removable prostheses, allergies to cetylpyridinium or CHX, use of antibiotics and anti-inflammatory drugs in the past 3 months that might alter normal gingival health, oral prophylaxis outside of study; use of oral chlorhexidine products or participation in an oral rinse study within 3 months prior to baseline examination, pregnancy or lactation, smoking.

Age

From **30 years** old to **45 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

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

Double blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

For the First time ever

Secondary Ids

empty

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

Ethics Committee of the Faculty of Dental Branch
Islamic Azad Univesity of Tehran

Street address

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

City

Tehran

Postal code

19585/175

Approval date

2011-11-10, 1390/08/19

Ethics committee reference number

2125

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**

Reduction of pocket depth

Timepoint

15 Days

Method of measurement

Periodontal probe

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

Reduction of bleeding on probing

Timepoint

15 Days

Method of measurement

Periodontal probe

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

ketoprofen gel (2.5% Sanofi Pharmaceutical plant construction in France) + 3 % doxycycline (Kharzmai Pharmaceutical manufacture in Iran) which be put into the periodontal pocket using an insulin syringe.

Category

Treatment - Drugs

2**Description**

ketoprofen gel (2.5% Sanofi Pharmaceutical plant construction in France), which be inserted into the periodontal pocket using an insulin syringe .

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, Pasdarn 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

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

Amirhossein Farahmand

Position

Periodontologist, Implantologist

Other areas of specialty/work**Street address**

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

City

Tehran

Postal code

19585/175

Phone

+98 21 2284 9604

Fax**Email**

perio-implant@hotmail.com

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Dental Branch Islamic Azad University of Tehran

Full name of responsible person

Amirhossein Farahmand

Position

Periodontologist, Implantologist

Other areas of specialty/work**Street address**

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

City

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perio-implant@hotmail.com

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Dental Branch Islamic Azad University of Tehran

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Amirhossein Farahmand

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Periodontologist, Implantologist

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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