

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Comparison of a topical piroxicom plus metronidazole gel and piroxicom gel in treatment for pockets in chronic periodontal Disease.

Protocol summary

Summary

Objective: Evaluation of the effect of therapeutic topical Metronidazole gel Piroxicam with piroxicam in chronic periodontitis Methods & Material : In this study, 24 patients with chronic periodontitis disease that has the molar teeth on either sides with periodontal pocket depth of 4-6 mm, And then scaling & rootplaning and oral hygiene instruction (Bass technique of brushing twice a day and at least 2 min) was performed, After 2 weeks, Patients in the study, were randomly divided into 2 groups (Balanced block randomization), All periodontal parameters evaluated prior to the start of treatment, the experimental group: Piroxicam (5 %) plus Metronidazole (7.5%) and Piroxicam groups: with an insulin syringe is placed into the periodontal pocket, Every 15 days once periodontal parameters were assessed, and at the end of the study evaluated the clinical parameters.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050817587N3**

Registration date: **2014-06-26, 1393/04/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-06-26, 1393/04/05

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

2013-01-14, 1391/10/25

Expected recruitment end date

2014-04-09, 1393/01/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of a topical piroxicom plus metronidazole gel and piroxicom gel in treatment for pockets in chronic periodontal Disease.

Public title

A double-blind, Randomized, Controlled trial comparison of a topical piroxicom plus metronidazole gel and Piroxicom gel in Treatment for Periodontal disease.

Purpose

Treatment

Inclusion/Exclusion criteria

All of the Patients following criteria were included in the study: aged between 30 and 45 years; 20 natural teeth present; Probing depth (PD) of 4-6 mm) Patients were Excluded from the Study if they met one or more of the Following criteria: Existing systemic disease that may influence the severity or progression of periodontitis, or Diabetes Mellitus; Taking medications that may influence the periodontium (e.g. Phenytoin, ... or Non-steroidal anti-Inflammatory drugs) or other medicines (Antibiotic)

within the 6 months preceding the beginning of the study, Orthodontic treatments; Extensive dental restorations, Pregnancy or Lactation; Non-agreement with the examination and treatment appointments; Mouthrinses, During the entire period of the Study; Hypersensitive to these medicine; Smoking

Age

No age limit

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**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

2011-08-20, 1390/05/29

Ethics committee reference number

2126

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

Periodontal diseasaes

ICD-10 code

k05.3

ICD-10 code description

Periodontal diseasaes

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

Pocket depth

Timepoint

Reduction of Pocket depth

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

15 days

Method of measurement

Periodontal probe

2**Description**

Reduction of plaque index

Timepoint

15 days

Method of measurement

Plaque Index(O'Leary)

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

piroxicam (5 percent made of Razak Pharmaceutical Co - Iran) plus metronidazole (7.5%) (made of Pars Pharmaceutical Co-Iran) with an insulin syringe is placed into the periodontal pocket.

Category

Treatment - Drugs

2**Description**

Piroxicam gel (5 percent made of Razak Co-Iran) with an insulin syringe is placed into the periodontal pocket.

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

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**

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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