

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of the effect of doxycycline 20 mg as an adjunct to scaling and root planing in mild periodontitis patients

Protocol summary

2012-05-21, 1391/03/01

Summary

Background and aim: Scaling and root planing (SRP) is the base of non-surgical therapies in the management of periodontitis, but low dose doxycycline is recognized to have therapeutic properties that can modulate host response. The aim of the present study was to compare some clinical parameters in patients with mild periodontitis treated by SRP with and without using doxycycline 20 mg. Methods and materials: In this randomized double blind study, 44 patients with mild periodontitis were treated with standard SRP therapy and then randomly received either adjunctive 20 mg doxycycline or placebo for 3 months and twice daily. Inclusion criterion was: having at least 14 untreated teeth with mild periodontitis in two quadrants that need comprehensive treatment. Exclusion criteria were: pregnant women; patients with a history of tetracycline sensitivity; any systemic infection requiring antibiotic prophylaxis for dental procedures; history of intake of tetracycline during the 3 last months; history of periodontal therapy (scaling and root planing or periodontal surgery) during the last 3 months. Before and after treatment clinical parameters including periodontal pocket depth (PPD), clinical attachment loss (CAL), bleeding on probing (BOP) and modified gingival index (MGI) were recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201205058205N2**

Registration date: **2012-05-21, 1391/03/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

Registrant information

Name

Mohammad Reza Amjadi

Name of organization / entity

Department of periodontology, Esfahan faculty of dental sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Faculty of dentistry, Shahid Sadoghi University of Medical Sciences

Expected recruitment start date

2011-07-08, 1390/04/17

Expected recruitment end date

2011-11-23, 1390/09/02

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of doxycycline 20 mg as an adjunct to scaling and root planing in mild periodontitis patients

Public title

Clinical effects of subantimicrobial dose doxycycline

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion: having at least 14 untreated teeth with mild periodontitis in two quadrants that need comprehensive treatment. Exclusion criteria were: pregnant women; patients with a history of tetracycline sensitivity; any systemic infection requiring antibiotic prophylaxis for dental procedures; history of intake of tetracycline during the 3 last months; history of periodontal therapy (scaling and root planing or periodontal surgery) during the last 3 months.

Age

From **25 years** old to **54 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **44**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Shahid Sadoghi university

Street address

Faculty of dentistry of Yazd university of medical sciences, Daheye Fajr Boulevard, Emam Khomeyni street, Yazd

City

Yazd

Postal code

Approval date

2010-08-20, 1389/05/29

Ethics committee reference number

424

Health conditions studied

1

Description of health condition studied

Clinical effects of subantimicrobial dose doxycycline

ICD-10 code

k08.8

ICD-10 code description

Other specified disorders of teeth and supporting structures

Primary outcomes

1

Description

PPD: The distance between the gingival margin and depth of sulcus

Timepoint

Before treatment, 3 months after treatment

Method of measurement

Periodontal probe, mm

Secondary outcomes

1

Description

BOP: bleeding on probing

Timepoint

Before treatment, 3 months after treatment

Method of measurement

Periodontal probe, mm

2

Description

CAL: The distance between cemento-enamel junction (CEJ) and the bottom of pocket

Timepoint

Before treatment, 3 months after treatment

Method of measurement

Periodontal probe, mm

3

Description

MGI: a gingival index for evaluation of gingival health

Timepoint

Before treatment, 3 months after treatment

Method of measurement

Periodontal probe, mm

Intervention groups

1

Description

Intervention 2: control group: after scaling and root planing, patients used the placebo (containing starch) twice daily and for 3 months, orally.

Category

Treatment - Drugs

2

Description

Intervention 1: case group: After scaling and root

planing, patients received capsules containing subantimicrobial dose doxycycline (20 mg) twice daily and for 3 months, orally.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Sadoghi University of Medical Sciences,
Faculty of dentistry

Full name of responsible person

Dr Mohammad Reza Amjadi

Street address

Shahid sadoghi faculty of dentistry, Daheye fajr
Boulevard, Emam Khomeyni street, Yazd

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shahid Sadoghi
University of Medical Sciences

Full name of responsible person

Dr Alireza Danesh Kazemi

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Yazd

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Vice chancellor for research, Shahid Sadoghi University
of Medical Sciences

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

Isfahan University of Medical Sciences, Faculty of
dentistry

Full name of responsible person

Dr Mohammad Reza Amjadi

Position

Assistant professor

Other areas of specialty/work

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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