

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Comparison of the effect of adjunctive low dose doxycycline with Omega-3 fatty acid and low-dose Aspirin on gingival crevicular fluid levels of matrix metalloproteinase-8 in chronic periodontitis

Protocol summary

Summary

Aims: Comparison of the effect of adjunctive low dose doxycycline with Omega-3 fatty acid and low-dose Aspirin on gingival crevicular fluid levels of matrix metalloproteinase-8 in chronic periodontitis Study design: Interventional, Double blind, Placebo usage, Uni-center. a- Study population: Without age limit, no sex limit. Inclusion criteria: chronic mild to moderate periodontitis. Exclusion criteria: Patients with any infectious or systemic diseases; no drug usage at all; pregnant, breast feeder patients; patients allergic to antibiotics; no scaling and root planning or periodontal surgeries in the last six months; no usage of antibiotic drugs during the last six months; Smokers, alcoholics; patients with poor oral hygiene or patients with poor compliance Sample size: 45 patients b- Intervention/Control: Intervention: One 20mg Capsule of Doxycycline per day Intervention: One 400mg Tablet of Omega-3 fatty acid and one 80mg Tablet of Aspirin per day Control: One Placebo Capsule per day Time of intervention: 6 weeks. Primary or under study outcome measures: doxycycline, Omega-3 fatty acid and Aspirin, placebo, gingival crevicular fluid levels of matrix metalloproteinase-8

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013052311771N6**

Registration date: **2013-06-03, 1392/03/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-06-03, 1392/03/13

Registrant information

Name

Shirin Zahra Farhad

Name of organization / entity

Khorasgan Islamic Azad Dental School (Isfahan)

Country

Iran (Islamic Republic of)

Phone

+98 31 1664 1410

Email address

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Recruitment status

Recruitment complete

Funding source

private

Expected recruitment start date

2011-10-23, 1390/08/01

Expected recruitment end date

2012-05-21, 1391/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of adjunctive low dose doxycycline with Omega-3 fatty acid and low-dose Aspirin on gingival crevicular fluid levels of matrix metalloproteinase-8 in chronic periodontitis

Public title

Comparison of the effect of doxycycline with Omega-3 fatty acid and low-dose Aspirin on gingival crevicular fluid levels of matrix metalloproteinase-8

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: chronic mild to moderate periodontitis.
Exclusion criteria: Patients with any infectious or systemic diseases; no drug usage at all; pregnant, breast feeder patients; patients allergic to antibiotics; no scaling and root planning or periodontal surgeries in the last six months; no usage of antibiotic drugs during the last six months; Smokers, alcoholics; patients with poor oral hygiene or patients with poor compliance

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 45

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

Islamic Azad Dental School Khorasgan Branch,
(Isfahan), Iran

Street address

Islamic Azad University Khorasgan (Isfahan) Branch,
University Boulevard, Arghavanieh, Eastern Jay
Street, Isfahan, Iran.

City

Isfahan

Postal code

Approval date

2012-01-28, 1390/11/08

Ethics committee reference number

90110808905

Health conditions studied

1

Description of health condition studied

Chronic Periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes

1

Description

MMP-8 concentrate in GCF

Timepoint

0 and 6 weeks

Method of measurement

Nanogram per milliliter by means of ELISAreader

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: One 20mg Capsule of Doxycycline per day

Category

Treatment - Drugs

2

Description

One 400mg Tablet of Omega-3 fatty acid and one 80mg
Tablet of Aspirin per day

Category

Treatment - Drugs

3

Description

One Placebo Capsule per day

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Khorasgan Islamic Azad Dental School (Isfahan)

Full name of responsible person

Shirin Zahra Farhad

Street address

Islamic Azad University Khorasgan (Isfahan) Branch,
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City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University Khorasgan Branch (Isfahan)

Full name of responsible person

Shirin Zahra Farhad

Street address

Periodontics Department of Islamic Azad University
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Isfahan

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

Yes

Title of funding source

Islamic Azad University Khorasgan Branch (Isfahan)

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**

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Full name of responsible person

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Position

Assistant Professor of Periodontics

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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