

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

22 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

drsh.farhad@khuisf.ac.ir

##### 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,  
University Boulevard, Arghavanieh, Eastern Jay  
Street, Isfahan, Iran.

##### City

Isfahan

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

**City**

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**

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

**Full name of responsible person**

Shirin Zahra Farhad

**Position**

Assistant Professor of Periodontics

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

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drsh.farhad@yahoo.com

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## Person responsible for scientific

## inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

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**Position**

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## Person responsible for updating data

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drsh.farhad@yahoo.com

**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*