

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Comparison of the effect of low dose doxycycline(20mg capsule) and licorice(490mg tablet) as adjunctive therapy in chronic periodontitis

#### Protocol summary

##### Summary

Aim of the study: Comparison of the effect of low dose doxycycline(20mg capsule) and licorice(490mg tablet) as adjunctive therapy in chronic periodontitis. Randomized, single blind, controlled with placebo, single center. A total of 45 patients with mild to moderate chronic periodontitis. Inclusion criteria: Physically healthy patients, 25-45 years old and with plaque index under 30%. exclusion criteria: The patients with systemic diseases, pregnant and lactescent women, the patients receiving each drug or antibiotic during 6 months ago, sensitivity to kinds of antibiotic, the patients who had scaling or gum surgery and smokers. After Oral hygiene education to three groups, A 20mg doxycycline capsule was prescribed and given to each patient in the first group daily, the second group was prescribed and given a 490mg licorice tablet per day, and the third group as control group was prescribed and given a placebo capsule per day. The time of intervention was 6 weeks. The primary outcomes: Plaque Index(PI), Pocket Depth(PD), Clinical Attachment Loss(CAL), Bleeding On Probing(BOP).

#### General information

##### Acronym

-

##### IRCT registration information

IRCT registration number: **IRCT2014041217228N1**

Registration date: **2014-05-10, 1393/02/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-05-10, 1393/02/20

##### Registrant information

##### Name

Tahmures Mahmudpourmoteshakker

##### Name of organization / entity

Dentistry school of Islamic Azad University Isfahan branch(Khorasgan)

##### Country

Iran (Islamic Republic of)

##### Phone

+98 31 1535 4001

##### Email address

t.mahmudpour@khuisf.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Research ministry of dentistry school of Islamic Azad University, Isfahan branch (Khorasgan)

##### Expected recruitment start date

2013-12-06, 1392/09/15

##### Expected recruitment end date

2014-04-21, 1393/02/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the effect of low dose doxycycline(20mg capsule) and licorice(490mg tablet) as adjunctive therapy in chronic periodontitis

##### Public title

The effect of licorice(490mg tablet) in treatment of chronic periodontitis

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: The patients with mild to moderate chronic periodontitis, physically healthy, 25-45 years old

and the plaque index under 30% exclusion criteria: The patients with systemic diseases, pregnant and lactescent women, the patients receiving each drug or antibiotic during 6 months ago, sensitivity to kinds of antibiotic, the patients who had scaling or gum surgery and smokers.

#### **Age**

From **25 years** old to **45 years** old

#### **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)**

Single blinded

#### **Blinding description**

#### **Placebo**

Used

#### **Assignment**

Parallel

#### **Other design features**

## **Secondary Ids**

empty

## **Ethics committees**

### **1**

#### **Ethics committee**

##### **Name of ethics committee**

University of Medical Sciences and hygienic-treatment services of Isfahan province

##### **Street address**

Hezarjarib st, Isfahan.

##### **City**

Isfahan

##### **Postal code**

۸۱۷۴۶-۷۳۴۶۱

#### **Approval date**

2013-12-02, 1392/09/11

#### **Ethics committee reference number**

493008

## **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**

Pocket depth(pathologic sulcus of gingiva)

#### **Timepoint**

6 weeks after the beginning of intervention

#### **Method of measurement**

periodontal probe

### **2**

#### **Description**

Clinical attachment loss

#### **Timepoint**

6 weeks after the beginning of intervention

#### **Method of measurement**

periodontal probe

### **3**

#### **Description**

Bleeding on probing

#### **Timepoint**

6 weeks after the beginning of intervention

#### **Method of measurement**

Muhlemann index, periodontal probe

## **Secondary outcomes**

### **1**

#### **Description**

Plaque Index

#### **Timepoint**

beginning of recruitment

#### **Method of measurement**

O'leary Index, disclosing tablet

## **Intervention groups**

### **1**

#### **Description**

First group(intervention group): Low dose doxycycline(20mg capsule)

#### **Category**

Treatment - Drugs

### **2**

#### **Description**

Second group(Intervention group): Licorice(490mg tablet)

#### **Category**

Treatment - Drugs

### **3**

#### **Description**

Third group( control group): Placebo

**Category**

Placebo

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Dentistry school of Islamic Azad University Isfahan branch(Khorasgan)

**Full name of responsible person**

Tahmures Mahmudpourmoteshakker(dentistry student)

**Street address**

Daneshgah blvd, Arghavanieh, East jey st, Isfahan

**City**

Isfahan

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Research ministry of dentistry school of Islamic Azad University, Isfahan branch(Khorasgan)

**Full name of responsible person**

Dr Vahid Esfahanian

**Street address**

Daneshgah blvd, Arghavanieh, East jey st, Isfahan

**City**

Isfahan

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

Yes

**Title of funding source**

Research ministry of dentistry school of Islamic Azad University, Isfahan branch(Khorasgan)

**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**

Dentistry school of Islamic Azad University Isfahan branch(Khorasgan)

**Full name of responsible person**

Tahmures Mahmudpourmoteshakker

**Position**

Dentistry student

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

Daneshgah blvd, Arghavanieh, East jey st, Isfahan

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T.Mahmudpour@yahoo.com

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Dentistry school of Islamic Azad University Isfahan branch(Khorasgan)

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**Person responsible for updating data****Contact****Name of organization / entity**

Dentistry school of Islamic Azad University Isfahan branch(Khorasgan)

**Full name of responsible person**

Tahmures Mahmudpourmoteshakker

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**Email**

T.mahmudpour@yahoo.com

**Web page address**

www.khuisf.ac.ir

**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*