Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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), Bleedig 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 Islamc 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 Islamc 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
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Person responsible for updating data

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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