

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

The effect of non-surgical periodontal treatment on salivary and serum visfatin in generalized moderate to severe chronic periodontitis

Protocol summary

Summary

The aim of this study is comparison the effect of scaling and root planning (as the standard non-surgical treatment) on salivary and serum Visfatin. Study design is interventional, non randomized and no using of placebo. In this clinical trial study, 18 patients with moderate to severe chronic periodontitis and BMI 18-24.9 kg /m², who had referred to the Periodontics Department of Tabriz Dental Faculty, will be included. Gingival index, probing pocket depth and clinical attachment level will be measured for diagnosis of periodontitis. 5 milliliters of blood and 3 milliliters of saliva will be collected and immediately transferred to the laboratory. Salivary and serum Visfatin will be measured at baseline and one month after scaling and root planning by Visfatin Eliza kit. Primary outcome is the change of serum and salivary Visfatin before and after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012080510501N1**

Registration date: **2012-08-25, 1391/06/04**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-08-25, 1391/06/04

Registrant information

Name

Nader Abolfazli

Name of organization / entity

Department of periodontics, Tabriz faculty of dentistry

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

vice-chancellor for research of Tabriz university of medical sciences

Expected recruitment start date

2012-09-22, 1391/07/01

Expected recruitment end date

2013-01-19, 1391/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of non-surgical periodontal treatment on salivary and serum visfatin in generalized moderate to severe chronic periodontitis

Public title

The effect of non-surgical periodontal treatment on salivary and serum visfatin

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: individuals whit BMI 18-24.9 kg/m²; natural teeth ≥ 20 ; GI >1 ; moderate to severe chronic periodontitis in which at least 30% sites have CAL ≥ 3 mm and PPD ≥ 5 mm and radiographic signs of bone loss are present. Exclusion criteria: individuals with systemic diseases that can alter the course of periodontal disease; pregnancy or lactation; hypertension; aggressive

periodontitis; history of using anti hyperlipidemia medication or antibiotic in the preceding 6 months; ongoing usage of NSAIDs; a smoking habit; or those who had received scaling and root planning in the preceding 6 months.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 18

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Tabriz university of medical sciences

Street address

Daneshgah st.

City

Tabriz

Postal code**Approval date**

2012-07-09, 1391/04/19

Ethics committee reference number

3953/4/5

Health conditions studied**1****Description of health condition studied**

generalized moderate to severe chronic periodontitis

ICD-10 code

k05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes**1****Description**

serum visfatin

Timepoint

before intervention, one month after intervention

Method of measurement

Eliza kit

2**Description**

salivary visfatin

Timepoint

before intervention, one month after intervention

Method of measurement

Eliza kit

Secondary outcomes**1****Description**

gingival index

Timepoint

before intervention, one month after intervention

Method of measurement

gingival index score

2**Description**

clinical attachment level

Timepoint

before intervention, one month after intervention

Method of measurement

prob

3**Description**

clinical pocket depth

Timepoint

before intervention, one month after intervention

Method of measurement

prob

Intervention groups**1****Description**

Scaling and root planning by ultrasonic and hand instruments

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

department of periodontics, Tabriz faculty of dentistry

Full name of responsible person

Dr. Nader ASbolfazli

Street address

Department of Periodontics, faculty of dentistry,
Daneshgah street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

vice-chancellor for research of Tabriz university of
medical sciences

Full name of responsible person

Dr. Mohammad Reza Rashidi

Street address

Faculty of dentistry, Daneshgah street

City

Tabriz

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 of Tabriz 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

Tabriz faculty of dentistry

Full name of responsible person

Dr. Nader Abolfazli

Position

Associate Professor of periodontics

Other areas of specialty/work

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Contact

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

Sahar Jabali

Position

Post graduate student of periodontics, Professional
doctorate

Other areas of specialty/work

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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