

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jun 2026

Evaluation of Interleukin 18 levels in saliva of patients with generalized Chronic periodontitis before and after Scaling and root planing

Protocol summary

Summary

Periodontitis is an infectious disease that associated with cytokine imbalance . Interleukin 18 is a biomarker that has an antioxidant action. Non-surgical treatment is one periodontal treatment method that affects etiologic factors. The aim of this study is investigated salivary Interleukin 18 concentration and its changes following non-surgical treatment in periodontal disease. Inclusion criteria is patient with moderate to severe periodontitis, gingivitis and healthy subjects. Patients with systemic disease will be excluded. Study groups include 25 patients with periodontal disease and 25 healthy subjects selected as controls. Intervention include Scaling and root planing. Unstimulated saliva was collected before and after Scaling and root planing. Changes in the concentrations of this cytokines is expected.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201404133795N2**

Registration date: **2014-06-23, 1393/04/02**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-06-23, 1393/04/02

Registrant information

Name

Hojatollah Yousefimanesh

Name of organization / entity

Ahvaz Junishapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Sciences and Health Services

Expected recruitment start date

2013-04-05, 1392/01/16

Expected recruitment end date

2014-07-23, 1393/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of Interleukin 18 levels in saliva of patients with generalized Chronic periodontitis before and after Scaling and root planing

Public title

Evaluation of Interleukin 18 in Chronic periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients with severe periodontitis; patients with moderate to severe periodontitis; subjects with periodontal healthy Exclusion criteria: periodontal treatment or antibiotic therapy within the last 3 months; presence of any systemic disease (e.g.,diabetes mellitus, asthma); xerostomia or any other disease of the salivary glands; less than 20 teeth remaining; intake of any drug known to alter salivary rate levels (e.g., for sleeping disorders) or to be immunosuppressive; usage of partial or total prosthesis; pregnancy; lactation; acute infection;

immunodeficiency; history of radio- or chemotherapy; and any conditions necessitating antibiotic premedication for dental appointment

Age

From **63 years** old to **43 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethic committee of Ahvaz University of Medical Sciences

Street address

Deputy of development of research and technical sciences of Ahvaz Jundishapur University of Medical Sciences, Golestan

City

Ahvaz

Postal code

61357-15794

Approval date

2013-02-20, 1391/12/02

Ethics committee reference number

ETH-687

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**

Interleukin 18

Timepoint

At the time of sampling

Method of measurement

ELISA kit

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

Interleukin 18

Timepoint

Six weeks after sampling

Method of measurement

ELISA kit

2**Description**

Bleeding on probing

Timepoint

At the time of sampling

Method of measurement

By periodontal probe

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

The intervention group: Scaling and root planning

Category

Treatment - Other

2**Description**

The control group : observation

Category

Other

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

Department of Periodontology of Dental faculty of Ahvaz Jondishapoor University of Medical Science

Full name of responsible person

Hossein Didehvareh

Street address**City**

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz Jundishapour University of Medical Sciences and Health Services

Full name of responsible person

Dr Mostafa Fegghi

Street address

Deputy of development reseach and Technical Development of Ahvaz Jundishapur University of Medical Sciences, University city

City

Ahvaz

Grant name**Grant code / Reference number**

U-91237

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Ahvaz Jundishapour University of Medical Sciences and Health Services

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

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Dental faculty of Ahvaz Jondishapoor University of Medical Science

Full name of responsible person

Mahmood Jahangirnezhad

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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