

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation the effect of one stage full mouth disinfection on serum IL17 and IL23 levels in patients with moderate to severe chronic periodontitis

Protocol summary

zarandi.ali@umsha.ac.ir

Summary

Objective: One-stage oral disinfection quickly delete or reduce all oro-pharyngeal pathogens. The purpose of the present study is to evaluate the effect of one stage full mouth disinfection on serum IL17 and IL23 levels in patients with moderate to severe chronic periodontitis. METHODS: 33 patients with moderate to severe chronic periodontitis in terms of medical health and without history of taking medication were randomly selected. Blood samples were taken before treatment. Scaling and root planning, tongue disinfection, mouth washing and sub- gingival irrigation was performed. The second blood sample was obtained two weeks after treatment. Serum levels of IL-17, 23 were obtained using ELISA method.

Recruitment status

Recruitment complete

Funding source

Hamedan university of medical sciences and health services

Expected recruitment start date

2010-12-06, 1389/09/15

Expected recruitment end date

2011-03-06, 1389/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201103165900N3**

Registration date: **2011-04-14, 1390/01/25**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-04-14, 1390/01/25

Registrant information

Name

Ali Zarandi

Name of organization / entity

Hamedan dental faculty

Country

Iran (Islamic Republic of)

Phone

+98 81 1825 0498

Email address

Scientific title

Evaluation the effect of one stage full mouth disinfection on serum IL17 and IL23 levels in patients with moderate to severe chronic periodontitis

Public title

Evaluation the effect of one stage full mouth disinfection on serum IL17 and IL23 levels in patients with moderate to severe chronic periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1- patients aged 25 to 70 years 2- Having at least 12 teeth (regardless of third molars, teeth with orthodontic appliances, crowns, bridges and implants) 3- Diagnosis of moderate to advanced chronic periodontitis 4- having informed consent. Exclusion criteria: 1- Patients with a contra-indication for surgery or local anesthesia or scaling 2- Systemic disease (eg diabetes mellitus, cancer, AIDS, metabolic bone disease, diseases that delay the healing pockets, previous radiotherapy or immunosuppressive treatment, autoimmune diseases, allergies, infectious diseases,

neutropenia, bleeding disorders, Rheumatoid arthritis, bowel disease, lung disease, multiple sclerosis) 3- pregnancy or lactation 4- History of systemic antibiotics use in the past six months 5- History of continuous use of NSAIDS in the past six months 6- scaling and root planning in the past year 7- contagious diseases 8- History of smoking in the past six months

Age

From **25 years** old to **70 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **33**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

It is a before & after study without any control group.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Hamedan university of medical sciences and health services

Street address

Vice chancellor for research, Hamedan University of Medical Sciences and Health Services, Fahmideh Street

City

Hamedan

Postal code

518/65178

Approval date

2010-12-06, 1389/09/15

Ethics committee reference number

137619/9/35/16/پ

Health conditions studied

1

Description of health condition studied

periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes

1

Description

serum levels of IL-17

Timepoint

6 weeks later

Method of measurement

laboratory assessment (IL-17 ELISA kit)

Secondary outcomes

1

Description

serum IL-23 level

Timepoint

6 weeks later

Method of measurement

laboratory assessment (IL-23 ELISA kit)

Intervention groups

1

Description

one-stage full mouth disinfection

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Hamedan dental faculty

Full name of responsible person

Ali Zarandi

Street address

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan dental faculty

Full name of responsible person

Ali Zarandi

Street address

Periodontics department, Hamedan dental faculty

City

Hamedan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan dental faculty
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
Hamedan dental faculty
Full name of responsible person
Ali Zarandi
Position
Periodontics post-graduate student
Other areas of specialty/work
Street address
Periodontics department, Hamedan dental faculty
City
Hamedan
Postal code
Phone
+98 81 1825 0498
Fax
Email
zarandi.ali@umsha.ac.ir
Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Hamedan dental faculty
Full name of responsible person

Ali Zarandi
Position
Periodontics post-graduate student
Other areas of specialty/work
Street address
Periodontics Department, Hamedan dental faculty
City
Hamedan
Postal code
Phone
+98 81 1825 0498
Fax
Email
zarandi.ali@umsha.ac.ir
Web page address

Person responsible for updating data

Contact

Name of organization / entity
Hamedan dental faculty
Full name of responsible person
Ali Zarandi
Position
Other areas of specialty/work
Street address
City
Postal code
Phone
Fax
Email
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