

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the effects of one-stage full-mouth disinfection and quadrant-wise scaling and root planing on serum levels of IL-27 and clinical parameters following treatment of moderate-to-severe chronic periodontitis

Protocol summary

Summary

The aim of the present study was to compare the inflammatory processes in the two one-stage full-mouth disinfection technique and the quadrant-wise scaling and root planning procedure to determine IL_27 serum level. The subjects who have chronic to severe periodontitis and without history of systemic condition which delay would healing and without using of immune-suppressive drugs are selected to study. In the test group scaling and root planning with disinfection of oral cavity was done. The quadrant-wise patients underwent scaling and root planing procedures at two-week intervals for each quadrant (6 weeks). Blood samples were taken in 3 times (before, 2 month and 4 month after scaling and root planing)

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013051313312N1**

Registration date: **2013-08-04, 1392/05/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-08-04, 1392/05/13

Registrant information

Name

Zohre Babaloo

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tooth and gingiva diseases research center

Expected recruitment start date

2012-08-05, 1391/05/15

Expected recruitment end date

2013-03-10, 1391/12/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of one-stage full-mouth disinfection and quadrant-wise scaling and root planing on serum levels of IL-27 and clinical parameters following treatment of moderate-to-severe chronic periodontitis

Public title

Comparison of One-Stage Full-Mouth Disinfection and Quadrant-Wise Scaling and Root Planing

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: The subjects had at least 12 teeth (irrespective of third molars and teeth with orthodontic appliances, bridgeworks, crowns and implants) with the 30% of the teeth with clinical attachment loss of ≥ 3 mm; radiographic evidence of bone loss in each group.

Exclusion criteria: included systemic conditions: conditions which delay would healin: a history of radiotherapy or immune-suppressive treatment modalities: pregnancy or breast-feeding: use of systemic antibiotics during the two previous months: a history of continuous consumption of NSATDs : a history of scaling and root planing during the previous year

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

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Not randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz university of medical sciences

Street address

Tabriz, Golgasht st, Tabriz university of medical sciences, No 2 central building, 3th floor

City

Tabriz

Postal code

5166614711

Approval date

2013-04-30, 1392/02/10

Ethics committee reference number

921

Health conditions studied

1

Description of health condition studied

chronic periodontitis

ICD-10 code

ko5.3

ICD-10 code description

chronic periodontitis

Primary outcomes

1

Description

serum levels of IL_27

Timepoint

befor intervation,2 month and 4 month after intervation

Method of measurement

special laboratory kit

Secondary outcomes

1

Description

bleeding on probing

Timepoint

befor intervation,2 month and 4 month after intervation

Method of measurement

probing

2

Description

clinical attachment level

Timepoint

befor intervation,2 month and 4 month after intervation

Method of measurement

distance between floor of pocket to CEJ

3

Description

probing depth

Timepoint

befor intervation,2 month and 4 month after intervation

Method of measurement

distance between floor of the pocket to free gingiva

Intervention groups

1

Description

After blood samples were taken in the test group , the entire oral cavity was cleaned by an ultrasonic scaler in two sessions in less than 24 hours in order to decrease pathogenic organisms' counts. Subgingival irrigation of all the pockets was carried out with 0.2% chlorhexidine using an insulin syringe in order to remove all remaining bacteria. An antiseptic agent (0.2% chlorhexidine) was used to brush the dorsum of the tongue to decrease the bacterial load in the area; an antiseptic mouthwash (0.2% chlorhexidine) was used to reduce bacterial load in the saliva and on the tonsils.

Category

Treatment - Other

2

Description

The control group patients underwent scaling and root planing procedures at two-week intervals for each quadrant after blood samples were taken.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz University of Medical Sciences

Full name of responsible person

Amirreza Babaloo

Street address

Dentistry faculty, Tabriz University of Medical Sciences, Golgasht St.

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

Seid Kazem Shakouri

Street address

Tabriz University of Medical Sciences, Golgasht

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, 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 University of Medical Sciences

Full name of responsible person

Amirreza Babaloo

Position

Periodontist Specialist

Other areas of specialty/work

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Person responsible for scientific inquiries

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Full name of responsible person

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Other areas of specialty/work

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Person responsible for updating data

Contact

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Tabriz Dental Faculty

Full name of responsible person

Said Amjad Amini

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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