Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of scaling and root planing effects on salivary melatonin level in patients with chronic periodontitis

Protocol summary

Summary

Periodontitis is a chronic inflammatory infection in which tissue destruction is associated with an imbalance between oxidant _antioxidant systems. Melatonin 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 melatonin concentration and its changes following non-surgical treatment in periodontal disease. Inclusion criteria is patient with severe periodontitis،moderate periodontitis،gingivitis and healthy subjects.Patients with systemic disease will be excluded.Study groups include 45 patients with periodontal disease and 15 healthy subjects selected as controls. Intervention include scalling and root planing.Unstimulated saliva was collected before and after scaling and root planing.Decrease inflamation is expected.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013050613239N1**
Registration date: **2013-09-21, 1392/06/30**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-09-21, 1392/06/30

Registrant information

Name

Fatemeh Mohammadi

Name of organization / entity

Ahvaz Jondishapoor University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research and Technology Development Department of Medical Sciences, Ahvaz

Expected recruitment start date

2013-09-16, 1392/06/25

Expected recruitment end date

2014-02-24, 1392/12/05

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of scaling and root planing effects on salivary melatonin level in patients with chronic periodontitis

Public title

Effect of scaling and root planing on salivary melatonin level

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusin criteria: patients with severe periodontitis؛ patients with moderate periodontitis؛ patients with gingivitis؛ 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)؛ working in night shifts؛ xerostomia or any other disease of the salivary glands؛ less than 20 teeth؛ intake of any drug known to alter melatonin 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 **18 years** old to **65 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Not 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
Ahvaz University of Medical Sciences

Street address
Mehr street, Golestan

City
Ahvaz

Postal code

Approval date
2012-11-19, 1391/08/29

Ethics committee reference number
eth578

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
Melatonin

Timepoint
Before intervention

Method of measurement
Concentration

Secondary outcomes

1

Description
Severity of disease

Timepoint
After intervention

Method of measurement
Pocket depth

Intervention groups

1

Description
Scaling and root planning

Category
Treatment - Other

2

Description
No intervention

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Ahvaz University of Medical Sciences

Full name of responsible person
Fatemeh Mohammadi

Street address

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Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Development Deputy of Avaz University

Full name of responsible person
Dr Mostafa Feghhi

Street address

Medical science university, Mehr street, Goletan

City

Ahvaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Development Deputy of Avaz University

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

Ahvaz University of Medical Sciences

Full name of responsible person

Dr Leila Golpasand

Position

Attend of Periodontal Surgery Department

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