

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

Effect of non-surgical periodontal therapy on serum transferrin levels in chronic periodontitis patients

Protocol summary

Summary

Objectives: The aim of this study is to measure the concentration of transferrin in serum from patients with without chronic periodontitis before and after non-surgical periodontal therapy and test whether these concentrations correlate with clinical parameters associated with periodontal disease. **Design:** in this single center, single blind, non-randomized controlled trial, Individuals are in 25-60 age that referred to dental school of Tabriz and after receiving the written consent will enter to this study. forty individuals are included in this study, 20 with chronic periodontitis (at least two interproximal sites with attachment loss equal or more than 4mm) and 20 with periodontally health (no interproximal attachment loss). **setting and conduct:** serum transferrin levels (by venous blood sample) and clinical periodontal parameters (PD, CAL, BOP, GI, PI by periodontal probe) are recorded at baseline and 3 months after non-surgical periodontal therapy. **major exclusion criteria:** a course of NSAIDs or antimicrobial drugs & periodontal treatment within a 6 month period before the study, presence of any systemic disease and infection other than chronic periodontitis, pregnancy or lactating mothers. **Intervention:** Patients in the chronic periodontitis group received nonsurgical periodontal therapy, including oral hygiene instructions (flossing & brushing with Bass technique), and scaling and root planing in one 1-hour session. then, 0.12 % chlorhexidine mouthwash (Cosmodent Co., Gingival KIN, Spain) was prescribed for 14 days (15ml for 30 seconds twice a day). control group subjects were provided with oral hygiene instructions (flossing & brushing with Bass technique) only in 1 20-minute session. **main outcome variables:** serum transferrin is a primary outcome and clinical periodontal parameters are a secondary outcome.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201601137128N6**

Registration date: **2016-04-26, 1395/02/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-04-26, 1395/02/07

Registrant information

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Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Tabriz University of Medical Sciences

Expected recruitment start date

2015-04-05, 1394/01/16

Expected recruitment end date

2016-04-05, 1395/01/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of non-surgical periodontal therapy on serum

transferrin levels in chronic periodontitis patients

Public title

Effect of non-surgical periodontal therapy on serum level of transferrin and clinical parameters in patients with periodontal disease

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria in periodontally healthy group: no evidence of interproximal attachment loss, no PD equal or more than 3mm at any sites on any teeth and whole-mouth bleeding scores equal or less than 10%. inclusion criteria in chronic periodontitis group: two or more interproximal sites with attachment loss equal or more than 4mm, or two or more interproximal sites with PD equal or more 5mm, not on same tooth. Exclusion criteria :1) a course of NSAIDs or antimicrobial drugs within a 6 month period before the study 2) history of any periodontal treatment within a 6 month period before the study 3) presence of any systemic disease and infection other than chronic periodontitis 4) presence of aggressive periodontitis 5) pregnancy or lactating mothers 6) use of mouthwashes or vitamin supplements within the previous 3 months 7) furca involvement grade 2 , 3 , 4

Age

From **25 years** old to **60 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)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee Tabriz university of medical science

Street address

Golgasht street, daneshgah street, Tabriz

City

Tabriz

Postal code

Approval date

2016-01-13, 1394/10/23

Ethics committee reference number

tbzmed.rec.1394.870

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

serum level of transferrin

Timepoint

Base line-3month

Method of measurement

laboratory test

Secondary outcomes

1

Description

Clinical parameters of periodontium

Timepoint

Base line-3month

Method of measurement

periodontal probing

Intervention groups

1

Description

Intervention: chronic periodontitis : Patients in the chronic periodontitis group received nonsurgical periodontal therapy, including oral hygiene instructions (flossing & brushing with Bass technique), and scaling and root planing in one 1-hour session. then, 0.12 % chlorhexidine mouthwash (Cosmodent Co., Gingival KIN, Spain) was prescribed for 14 days (15ml for 30 seconds twice a day).

Category

Treatment - Other

2

Description

Control: healthy periodontal control group subjects were provided with oral hygiene instructions (flossing & brushing with Bass technique) only in 1 20-minute session

Category

N/A

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

Dentistry faculty of tabriz, Periodontics ward

Full name of responsible person

dr Adileh Shirmohamadi

Street address

Golgasht street,Daneshgah street,Tabriz,Iran

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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

Nasser asl aminabadi

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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**

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Position

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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