

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jul 2026

The effect of chronic periodontitis treatment on blood parameters

Protocol summary

Study aim

The effect of treatment of moderate to severe chronic periodontitis on blood parameters

Design

This clinical trial was performed on 36 patients with chronic periodontitis (moderate to severe) and 18 patients with periodontal disease referred to Baghei Hematology Clinic of Shahid Sadoughi Hospital, Khatam-ol-Anbia Clinic and Dental School of Yazd

Settings and conduct

The patients under study in this study included 36 male patients referring to Baghei Hematology Clinic of Shahid Sadoughi Hospital and Khatam-ol-Angiyah Clinic of Yazd (who have been requested for this study independently of this study) with moderate to severe chronic periodontitis. The average age of 25-50 years of age, which is systemically healthy, will be selected as a group, of which 18 will begin immediately periodontal treatment and will be performed for free after 18 weeks of treatment for the remaining 18, and for the control group, 18 patients with similar age and sex conditions were filled. Vdntaly were healthy, elected

Participants/Inclusion and exclusion criteria

Inclusion criteria: male patients (25-50 years), lack of systemic diseases, lack of the history hospitalization, no history of receiving or donating blood, no periodontal treatment in the last three months. Exclusion criteria: a patients who doesn't attend for giving blood sample after 6 weeks or when periodontal treatment was not conducted completely for any specific reason

Intervention groups

36 patients with chronic periodontitis (moderate to severe) and 18 patients with periodontal disease referred to Baghei Hematology Clinic of Shahid Sadoughi Hospital, Khatam-ol-Anbia Clinic and Dental School Yazd

Main outcome variables

Bleeding on probing (BOP), periodontal pocket depth (PPD), clinical attachment loss (CAL), Hemoglobin, Hematocrit, Mean Corpuscular volume (MCV), mean corpuscular hemoglobin (MCH), mean corpuscular

hemoglobin concentration (MCHC), Ferritin, Vitamin D,

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151013024509N3**

Registration date: **2018-02-09, 1396/11/20**

Registration timing: **prospective**

Last update: **2018-02-09, 1396/11/20**

Update count: **0**

Registration date

2018-02-09, 1396/11/20

Registrant information

Name

Fahimeh Rashidi Maybodi

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 912 519 6227

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-02-14, 1396/11/25

Expected recruitment end date

2018-04-14, 1397/01/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of chronic periodontitis treatment on blood parameters

Public title

The effect of periodontal treatment on blood parameters

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Male patients (25-50 years) With lack of systemic diseases such as: diabetes, kidney disease, cancer Fungal and respiratory diseases No history of hospitalization No history of receiving or donating blood No periodontal treatment in the last three months Non-use of cigarettes, alcohol and tobacco Serum ferritin levels greater than 50 ng/ml Do not use the following medications: warfarin, anti-coagulants, lithium, aspirin Corticosteroid drugs Heparin, phenytoin Anti-hypertensive drugs Non steroid anti-inflammatory drugs Antibiotics Antiarrhythmic drugs Drugs used in the treatment of kidney patients

Exclusion criteria:

A patient who doesn't attend for giving blood sample after 6 weeks when periodontal treatment was not conducted completely for any specific reason

Age

From **25 years** old to **50 years** old

Gender

Male

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **54**

More than 1 sample in each individual

Number of samples in each individual: **1**

All patients undergo periodontal examination, including the recording of PPD, BOP, and CAL indexes, and blood samples are taken from the patient at the same time. and will be sent to the laboratory for the evaluate blood parameters including hemoglobin (Hb), ferritin, hematocrit, MCV, MCH, MCHC and Vit D.

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization by random number table

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 of shahid sadoughi University of Medical Sciences

Street address

shahid sadoughi University of Medical Sciences
.Shahid Bahonar Square

City

Yazd

Province

Yazd

Postal code

12345

Approval date

2017-03-06, 1395/12/16

Ethics committee reference number

IR.SSU.REC.13950242

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

Moderate to severe chronic periodontitis

Timepoint

At the beginning of the study (before the intervention) and 6 weeks after the beginning of the study

Method of measurement

All patients under periodontal examination, including the recording of bleeding on probing (BOP), periodontal pocket depth (PPD) and clinical attachment loss (CAL) indices

Secondary outcomes

1

Description

Blood parameters

Timepoint

At the beginning of the study (before the intervention) and after 6 weeks

Method of measurement

Taking blood samples of patients

Intervention groups

1

Description

Control group: 18 people with healthy periodontium, at the beginning of the study, complete periodontal examinations and taking blood samples and sent to the laboratory, 6 weeks later, a re-examination and taking blood samples

Category

Behavior

2

Description

Intervention group: 18 patient with moderate to severe chronic periodontitis, at baseline, full periodontal examinations, scaling and root planing, taking blood samples and sending to the laboratory, 6 weeks later, re-examination and taking of blood samples.

Category

Treatment - Other

3

Description

Intervention group: 18 patients with moderate to severe chronic periodontitis, at baseline, full periodontal examinations, taking blood samples, and sent to the laboratory, 6 weeks later, re-examination, scaling and root planing, taking of blood samples

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Sadoughi Faculty of Dentistry Yazds

Full name of responsible person

Ali Reza Ebrahimi

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Imam Reza Square, Shahid Sadoughi Faculty of Dentistry Yazd

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2

Recruitment center

Name of recruitment center

Khatam al-Anbia Clinic Yazd

Full name of responsible person

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Recruitment center

Name of recruitment center

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Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Alireza Danesh Kazemi

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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

Yazd University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Fahimeh Rashidi Maybodi

Position

Associate Professor

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Ali Reza Ebrahimi

Position

4. Post - Graduate Student

Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Ali Reza Ebrahimi

Position

Post - Graduate Student

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to

make this available

Title and more details about the data/document

The whole data is shared

When the data will become available and for how long

Six months after the publication of the article

To whom data/document is available

Researchers working in academic institutions

Under which criteria data/document could be used

Email, Call

From where data/document is obtainable

Alireza Ebrahimi, 09360210362, 09177315007,

Ebrahimi.Dentist@Gmail.Com

What processes are involved for a request to access data/document

After sending the email, the data will be transmitted

Comments