Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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
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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-inflamatory 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 conduced completely for any specefic 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 indexs, 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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Recruitment center

Name of recruitment center
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Recruitment center

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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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
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Fahimeh Rashidi Maybodi
Position
Associate Professor
Latest degree
Specialist
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Person responsible for updating data

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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