Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The clinical effect of debridement with combination of PVP-I10% and H2O2 3% in the treatment of moderate to severe chronic periodontitis.

Protocol summary

Summary

The objective of this study was to investigate the clinical effect of debridement with combination of PVP-I10% and H2O2 3% in the treatment of moderate to severe chronic periodontitis. (PVP-I: povidone iodine, H2O2: hydrogen peroxide, SRP: scaling & root planning). Sixteen patients (both sexes aged 30-56 years) who had a total of 64 periodontal pockets with depth more than 5 mm were recruited. Periodontal pockets of 4 quadrants in each patient were randomly assigned to one of the following treatment modalities: SRP + subgingival irrigation with PVP-I 10%, SRP + subgingival irrigation with H2O2 3% , SRP + subgingival irrigation with combination of PVP-I 10% and H2O2 3%, SRP + subgingival irrigation with normal saline (control). Depth of periodontal pocket was measured 5 weeks after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138902043785N1**
Registration date: **2008-04-05, 1387/01/17**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2008-04-05, 1387/01/17

Registrant information

Name

Fateme Koohpeima

Name of organization / entity

Dental school, Shirz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research, Shieaz University of Medical Sciences

Expected recruitment start date

2008-04-05, 1387/01/17

Expected recruitment end date

2008-05-06, 1387/02/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The clinical effect of debridement with combination of PVP-I10% and H2O2 3% in the treatment of moderate to severe chronic periodontitis.

Public title

The clinical effect of debridement with combination of PVP-I10% and H2O2 3% in the treatment of moderate to severe chronic periodontitis.

Purpose

Prevention

Inclusion/Exclusion criteria

Exclusion criteria: Iodine sensitivity, presence of thyroid disease, need to antibiotic prophylaxis, SRP in 3 previous months, pregnancy, medical problems that intervene with the study

Age

From **30 years** old to **56 years** old

Gender

Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **64**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Shiraz University of Medical Sciences
Street address
Shiraz University of Medical Sciences, Zand street, Shiraz
City
Shiraz
Postal code
ct-87-4005
Approval date
empty
Ethics committee reference number
ct-87-4005

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
periodontal pocket depth
Timepoint
5 weeks after treatment
Method of measurement
With periodontal probe

Secondary outcomes

1

Description
Improvement in periodontal status
Timepoint
6 months after treatment
Method of measurement
Periodontal probe

Intervention groups

1

Description
Insertion of PVP-I 10% in perio pocket with insulin syringe for 5 min.
Category
Treatment - Drugs

2

Description
Insertion of the combination of PVP-I 10% and H2O2 3% in perio pocket with insulin syringe for 5 min.
Category
Treatment - Drugs

3

Description
Insertion of the combination of PVP-I 10% and H2O2 3% in perio pocket with insulin syringe for 5 min.
Category
Treatment - Drugs

4

Description
Insertion of normal saline (sodium chloride 0.9%) in perio pocket with insulin syringe for 5 min.
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Shiraz Dental School
Full name of responsible person
Fateme Koohpeima
Street address
City
Shiraz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research Center of Shiraz University of Medical Sciences
Full name of responsible person
Dr. Dabbaghmanesh
Street address
Shiraz University of Medical Sciences, Zand street, Shiraz,
City
Shiraz
Grant name

Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Research Center of Shiraz 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
Shiraz Dental School
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Person responsible for updating data

Contact

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