Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Evaluation of sub gingival application of 1.5% Xanthan based Chlorhexidine gel and scaling and root planing on the treatment of chronic periodontitis

Protocol summary

Summary

The objective of this trial is to investigate the efficacy of Chlorhexidine gel (CHLO-SITE) as adjunctive therapy of scaling and root planing on chronic periodontitis treatment.It's a double-blind clinical trial with a split mouth design. This is a single center clinical trial. The main inclusion criteria are at least 2 millimeters of clinical attachment loss and at least 3 millimeters of pocket depth. Antibiotic therapy, pregnancy, malignancy and the risk of systemic disease affecting the periodontal status are the exclusion criteria. Sample size is twenty without sexual limits. In each patient mouth two sites consisting of two single-rooted teeth which conditions inclusion criteria is selected on both right and left sides of the mouth. Scaling and root planing will be performed in control group, in intervention group the basic treatment is performed and immediately after scaling and root planning sub gingival placement of Chlorhexidine gel will be done (as intervention). To evaluate the effectiveness of interventions in the treatment of chronic periodontitis variables including gingival index, probing depth, clinical attachment loss and plaque index were measured and compared between the two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015030321317N1**
Registration date: **2015-04-02, 1394/01/13**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-04-02, 1394/01/13

Registrant information

Name

Reza Mehrara

Name of organization / entity

Mashhad Univesity of Medical Science

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Iran (Islamic Republic of)

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+98 38829501

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Recruitment status

Recruitment complete

Funding source

Mashhad University of Medical Sciences

Expected recruitment start date

2011-12-22, 1390/10/01

Expected recruitment end date

2012-04-20, 1391/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of sub gingival application of 1.5% Xanthan based Chlorhexidine gel and scaling and root planing on the treatment of chronic periodontitis

Public title

Evaluation of Xanthan based Chlorhexidine gel effects on chronic periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: at least 2 millimeters of clinical

attachment loss; at least 3 millimeters of pocket depth; no history of periodontal surgery Exclusion criteria: antibiotic therapy in past 12 month; pregnancy; systemic condition which is effective on periodontal condition; malignancy

Age
From **20 years** old to **50 years** old

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **20**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Mashhad University of Medical Sciences

Street address
Mashhad University of Medical Sciences, Daneshgah St

City
Mashhad

Postal code

Approval date
2011-02-12, 1389/11/23

Ethics committee reference number
89589

Health conditions studied

1

Description of health condition studied
Chronic Periodontitis

ICD-10 code
K05.3

ICD-10 code description
Chronic Pericoronitis

Primary outcomes

1

Description
Clinical pocket depth

Timepoint
Before intervention; 3 month after intervention

Method of measurement
Clinical measuring via periodontal probe

2

Description
Clinical attachment loss

Timepoint
Before intervention; 3 month after intervention

Method of measurement
Clinical measuring via periodontal probe

3

Description
Plaque index

Timepoint
Before intervention; 3 month after intervention

Method of measurement
Löe and Silness Plaque Index

4

Description
Gingival index

Timepoint
Before intervention; 3 month after intervention

Method of measurement
Löe and Silness Gingival Index

Secondary outcomes

empty

Intervention groups

1

Description
Scaling and root planing

Category
Treatment - Other

2

Description
Scaling and root planing and one time injection of Xanthan based 1.5% Chlorhexidine gel in periodontal pocket

Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Department of Periodontics, Mashhad Dental School
Full name of responsible person
Ali Forouzanfar
Street address
School of Dentistry, Vakilabad St
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Ali Banihashemrad
Street address
School of Dentistry, Vakilabad St
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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
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
Majidreza Mokhtari
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Assistant Professor, Department of Periodontics
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Person responsible for scientific inquiries

Contact
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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