

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

The Clinical Effect of Local Delivery of Xanthan-based CHLO-SITE gel with Scaling and Root planning in Chronic Periodontitis

Protocol summary

Summary

The aim of this study was to evaluate the clinical effectiveness of xanthan - based CHLO-SITE gel(xan-CHX) as an locally adjunctive therapy to SRP in treatment of moderate to sever periodontitis. In a randomized clinical trial, 6 patients with moderate to severe chronic periodontitis were selected. Each of the subjects had at least three pockets 4-7mm deep. 28 randomly selected pockets were subjected to control group and 44 pockets to test group. Scaling and root planning (SRP) were done in all pockets. In test group, in addition to SRP, xan-CHL gel was also injected in the pockets. Two weeks later again gel therapy would be administrated for experimental group. Clinical indices(PPD,CAL,BOP, PI) before and three months after treatment were measured by paired T-test, ki squired and Kruskal-wallis.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201101095570N1**

Registration date: **2011-02-27, 1389/12/08**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-02-27, 1389/12/08

Registrant information

Name

Parichehr Behfarnia

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 31 1666 1707

Email address

behfarnia@dnt.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research of Isfahan University Of Medical Sciences

Expected recruitment start date

2007-08-23, 1386/06/01

Expected recruitment end date

2008-06-04, 1387/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Clinical Effect of Local Delivery of Xanthan-based CHLO-SITE gel with Scaling and Root planning in Chronic Periodontitis

Public title

Clinical Effect Of Chlorohexidin Gel In Chronic Periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion creteria: Moderate to sever periodontitis; with at least 3 pocket with 4-7 probing depth; good patient coapration Exclusion criterria: Suffering from systemic disease; taking such drugs as antibiotics over three months prior to the study period; failing to cooperate appropriately; smoking or having recived periodontal treatment in the three months prior to the study period

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 72

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committe of Isfahan University Of Medical Sciences

Street address

Hezar Jarib

City

Isfahan

Postal code

8174673461

Approval date

2008-08-22, 1387/06/01

Ethics committee reference number

386168

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

Plaque Index

Timepoint

Base line(before treatment), 3 months after treatment

Method of measurement

Silness and Loe index

2

Description

Bleeding Index

Timepoint

Base line(before treatment), 3 months after treatment

Method of measurement

Ainamo and Bay index

3

Description

Probing Depth

Timepoint

Base line(before treatment), 3 months after treatment

Method of measurement

Clinical Evaluation(Probing by Williams prob, from gingival margin to depth of pocket)

4

Description

Level Of Attachment

Timepoint

Base line(before treatment), 3 months after treatment

Method of measurement

Cilnical Evaluation (Probing from CEJ to the depth of pocket)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention Group: Oral hygiene instruction, Scaling and Root planing, Injection of xan-CHX after SRP AND 2weeks later

Category

Treatment - Drugs

2

Description

Control group: Oral hygiene instruction, Scaling and Root planing

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontics Department, Dental School, Isfahan University Of Medical Sciences

Full name of responsible person

Parichehr Behfarnia

Street address

Dental School, Isfahan University Of Medical Sciences

City

Isfahan

Fax

+98 31 1668 7080

Email

behfarnia@den.mui.ac.ir

Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**Vice chancellor For Research Of Isfahan University Of
Medical Sciences**Full name of responsible person**

Dr. Omid Savabi

Street addressHezar Jarib, Dental School, Isfahan University Of
Medical Sciences**City**

Isfahan

Grant name

تحقیقاتی

Grant code / Reference number

386168

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding sourceVice chancellor For Research Of Isfahan 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**

Dental School, Isfahan University Of Medical Sciences

Full name of responsible person

Parichehr Behfarnia

Position

Assistant Professor

Other areas of specialty/work**Street address**

Hezar Jarib

City

Isfahan

Postal code

8174673461

Phone

+98 79 22870

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Dental School, Isfahan University Of Medical Sciences

Full name of responsible person

Parichehr Behfarni

Position

Assistant Professor

Other areas of specialty/work**Street address**

Hezar Jarib

City

Isfahan

Postal code

8174673461

Phone

+98 31 1792 2870

Fax

+98 31 1668 7080

Email

behfarnia@dnt.mui.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Dental School, Isfahan University Of Medical Sciences

Full name of responsible person

Parichehr Behfarnia

Position

Assistant Professor

Other areas of specialty/work**Street address**Hezar Jarib, Dental School, Isfahan University Of
Medical Sciences**City**

Isfahan

Postal code

8174673461

Phone

+98 31 1792 2870

Fax

+98 31 1668 7080

Email

behfarnia@den.mui.ac.ir

Web page address**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