

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 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

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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 coaperate 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 hygine instruction, Scaling and Root planing, Injection of xan-CHX after SRP AND 2weeks later

Category
Treatment - Drugs

2

Description
Control group: Oral hygine 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

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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

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Isfahan

Grant name

تحقیقاتی

Grant code / Reference number

386168

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

Yes

Title of funding source

Vice 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**

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Assistant Professor

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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