

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jul 2026

Comparision of the size of the upper anterior teeth periapical lesions between CHX %2 and NAOCL %5/25 by the radiography at 1 year after root canal therapy

Protocol summary

Summary

The aim of this article is evaluating the effect of intra-canal irrigation solutions in healing process of periapical lesions. This clinical trial study will be done on 30 patients that are referred to the endodontic department of ahwaz dental faculty at 2012. Before root canal therapy, periapical digital radiographies have been prepared with PSP films and using parallel technique. Evaluation the size of periapical lesion should be done by measuring their maximum and minimum dimensions. Patients was be put under anesthesia and cleaning and shaping of canals. Irrigation solutions should be used by 5cc syringe, respected to randomized table: (Group1 with cholorexidine 2%, group2 with sodium hypochlorite 5.25%, group3 with normal saline 0.9%). Filling would be completed by lateral compression method. Then patients should be followed up for evaluating of the healing process by measuring the size of the lesions.

General information

Acronym

ARS

IRCT registration information

IRCT registration number: **IRCT201305226443N3**

Registration date: **2013-06-01, 1392/03/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-06-01, 1392/03/11

Registrant information

Name

Behrouz Eftekhari

Name of organization / entity

Ahwaz University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1336 1643

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eftekhari-b@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ahwaz University Of Medical Sciences

Expected recruitment start date

2012-04-20, 1391/02/01

Expected recruitment end date

2012-06-19, 1391/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparision of the size of the upper anterior teeth periapical lesions between CHX %2 and NAOCL %5/25 by the radiography at 1 year after root canal therapy

Public title

Comparision of the size of the upper anterior teeth periapical lesions at 1 year after root canal therapy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: the patient should be without any systemic problem; The tooth should be maxillary incisors; It has periapical lesion with 10-15 mm (in vertical and horizontal dimension); The lesion must be endodontic

origin. Exclusion criteria: Absence of patient at 1 year after treatment; pregnant women or in lactating stage; Persistence signs after treatment and requirement to apical surgery; Tooth was extracted; Tooth was traumatized.

Age

From **18 years** old to **35 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ahwaz University Of Medical Sciences

Street address

Dy st, Frvardin blv, Glestan, Awaz

City

Ahvaz

Postal code

61357-15794

Approval date

2012-10-26, 1391/08/05

Ethics committee reference number

1911//پ/20/8/د

Health conditions studied

1

Description of health condition studied

Chronic apical periodontitis

ICD-10 code

K04.5

ICD-10 code description

Chronic apical periodontitis NOS

Primary outcomes

1

Description

Chronic apical periodontitis

Timepoint

Before root canal treatment- 1 year after root canal treatment

Method of measurement

Computer rule calibrated by millimeter

Secondary outcomes

empty

Intervention groups

1

Description

The irrigation of root canal with chlorhexidine 0/2 % solution

Category

Treatment - Drugs

2

Description

The irrigation of root canal with hypochlorite 5/25 % solution

Category

Treatment - Drugs

3

Description

The irrigation of root canal with normal saline 0/9 % solution

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Dentistry Faculty of Ahwaz University Of Medical Science

Full name of responsible person

Sanaz Sharifi Shooshtari

Street address

Dey A, Farvardin BLV, Golestan

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Assistance Of Ahwaz University Of Medical Science

Full name of responsible person

Mohammad Reza Abbas Pour

Street address

1th floor, Research assistance, university city

City

Ahvaz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Research Assistance Of Ahwaz University Of Medical Science

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**

معاونت پژوهشی دانشکده دندانپزشکی

Full name of responsible person

Behrooz Eftekhar

Position

Endodontic specialist

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

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

Endodontic Department Of Dental Faculty

Full name of responsible person

Dr. Pejman Pourakbar Jahandideh

Position

Endodontic specialist

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

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

Dental Faculty

Full name of responsible person

Mahsa mahmoudian

Position

General doctor student

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

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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