Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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 cholorhexidine 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 Eftekhar

Name of organization / entity

Ahwaz University Of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Ahvaz 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
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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