

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jul 2026

Effect of Dephotphoresis on Bacterial Reduction and Post treatment Pain and Healing of Preapical lesion: A Randomized Clinical Trial

Protocol summary

Study aim

Effect of depotphoresis on bacterial reduction and post treatment pain and healing of priapical lesion

Design

Randomised. parallel group trial with blinded outcom assessment

Settings and conduct

Zahedan dentistry univercity patient with necros tooth in maxilla and mandible and priapical lesion main investigator is blind

Participants/Inclusion and exclusion criteria

Patient with necros tooth with priapical lesion sign consent form without systemic disease

Intervention groups

1-Depotphoresi 2-Laser 3-Control

Main outcome variables

Pain; healing of preapical; clouny count

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Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-21, 1397/09/30

Expected recruitment end date

2020-06-19, 1399/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Dephotphoresis on Bacterial Reduction and Post treatment Pain and Healing of Preapical lesion: A Randomized Clinical Trial

Public title

Effect of Dephotphoresis on Healing of Dental Lesions

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patient that have necrose teeth in maxilla and mandible with preapical lesions Patient with consentform without any systemic disease without extensive crown decay people with age of between 12 and 60 years old

Exclusion criteria:

treatment accident durity therapy complicated canal anatomy

Age

From **15 years** old to **60 years** old

Gender

Both

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180718040517N1**

Registration date: **2019-01-10, 1397/10/20**

Registration timing: **registered_while_recruiting**

Last update: **2019-01-10, 1397/10/20**

Update count: **0**

Registration date

2019-01-10, 1397/10/20

Registrant information

Name

Maryam Dalaeimoghadam

Name of organization / entity

Country

Iran (Islamic Republic of)

Phase

N/A

Groups that have been masked

- Outcome assessor
- Data analyser

Sample size

Target sample size: 90

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization by use of computer software and by random block with size of 3 and 6 and attribution proportion 1:1:1 in two intervention group and control group are performance. for allocation concealment kind of intervention are written in paper inside pocket numbered .pockets open by investigator respectively and intervention performance

Blinding (investigator's opinion)

Single blinded

Blinding description

Personel of laboratory Method of study explain fot patient and explain they may put in one of study group and take them inform consent. fot this during treatment with depotphoresis laser tip enter to patient mouth and vice versa

Placebo

Not used

Assignment

Parallel

Other design features

use of depotphoresis

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committee of zahedan medical university

Street address

Hesabi square

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743463

Approval date

2018-10-07, 1397/07/15

Ethics committee reference number

IR.ZAUMS.REC.1397.278

Health conditions studied

1

Description of health condition studied

Diseases of oral cavity, salivary glands and jaws

ICD-10 code

K04.5

ICD-10 code description

Chronic apical periodontitis

Primary outcomes

1

Description

Groupes that participate in study

Timepoint

6 h.12h.24h.48.72h after first treatment

Method of measurement

Questionnaire

2

Description

Healing of lesion

Timepoint

6 months.12 months

Method of measurement

Clinical and radiographic evaluation

3

Description

Colony count

Timepoint

1.5 years

Method of measurement

PCR

Secondary outcomes

empty

Intervention groups

1

Description

Depotphoresis(Depotphoresis equipment Humanchemie GmbH Alfeld Germany):the root canal is filled with copper calcium solution(one section copral with 9 section calcium hydroxide) and then a weak electrical current(0.8 to 1.5ma) is sent through a fine probe. 3 time with 5 minute interval.electrical current need in one session.

Category

Treatment - Devices

2

Description

Laser diod with 200 um diameter and power of 2 W are used.laser activated and fiber guided in an apical direction to the coronal area with rotary movement and in contact with the root canal wall.the procedure was repeated 3 time with interval of 2 minutes.

Category

Treatment - Devices

3

Description

Control group with conventional endodontic treatment

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Dentistry university

Full name of responsible person

Maryam Dalaei Moghadam

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Tirandazi Street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

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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

Zahedan University of Medical Sciences

Proportion provided by this source

50

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

2

Sponsor

Name of organization / entity

The Research Assistance of Zahedan Medical University

Full name of responsible person

Eshagh Ali Saberi

Street address

Medical University, Dr Hesabi Square

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Email

E.saberi@yahoo.com

Web page address

Https://msrc.zaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

The Research Assistance of Zahedan Medical University

Proportion provided by this source

50

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Maryam Dalaei Moghadam

Position

Resident

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Maryam Dalaei Moghadam

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

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Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Effect of depotphoresis on healing of periapical lesion

When the data will become available and for how long

One year after publicasion

To whom data/document is available

Person who are practitioner in university

Under which criteria data/document could be used

-

From where data/document is obtainable

Supervisor

What processes are involved for a request to access data/document

Email

Comments

-