

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

The Effect of Occlusal Reduction on Pain after Root Canal Treatment

Protocol summary

Summary

In this randomized double blind clinical trial, 100 individuals with posterior endodontically involved teeth referred to Department of Endodontics of Kerman Dental School, will be divided into two groups after root canal treatment. 50 patients will receive occlusal reduction but; in 50 patients the occlusal contacts will be left intact. Then, the efficacy of the occlusal relief on postoperative pain will be evaluated. Patient's pain intensity will be recorded and compared between two groups before treatment up to 2 days after operation using Visual Analogue Scale (VAS).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138806012016N2**

Registration date: **2010-03-30, 1389/01/10**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-03-30, 1389/01/10

Registrant information

Name

Masoud Parirokh

Name of organization / entity

Kerman University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34 1245 7931

Email address

m_parirokh@kmu.ac.ir

Recruitment status

Recruitment complete

Funding source

The Oral and Dental research Center and Research Committee of Kerman University of Medical Sciences

Expected recruitment start date

2009-09-11, 1388/06/20

Expected recruitment end date

2010-04-09, 1389/01/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Occlusal Reduction on Pain after Root Canal Treatment

Public title

The Effect of Occlusal Reduction on Pain after Root Canal Preparation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Teeth with occlusal contact, teeth without previous Root canal treatment, Antibiotics or Analgesics consumption, Exclusion criteria: canals perforated or prepared due to over instrumentation, presence of severe systemic disease, teeth that are abutments of fixed or partial denture, presence of bruxism or clenching, teeth with mobility more than grade one, having less than three teeth in one side of maxillary or mandibular, During the study working length will be determined radiographically by initial file and with apex locator (Root ZX Morita) and in teeth which those measurements aren't similar the tooth will be excluded.

Age

From **18 years** old

Gender

Both

Phase

1

Groups that have been masked
No information

Sample size
 Target sample size: **100**

Randomization (investigator's opinion)
 Randomized

Randomization description

Blinding (investigator's opinion)
 Double blinded

Blinding description

Placebo
 Used

Assignment
 Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
 The Ethic Committee of Kerman University of Medical Sciences

Street address
 Tahmaseb-abad cross- Jahad Street, Vice Resrach Building of kerman University of Medical Sciences,

City
 Kerman

Postal code
 76174

Approval date
 2009-05-18, 1388/02/28

Ethics committee reference number
 KA/88-01

Health conditions studied

1

Description of health condition studied
 Occlusal reduction

ICD-10 code
 k04

ICD-10 code description
 Diseases of pulp and periapical tissues

Primary outcomes

1

Description
 pain

Timepoint
 immediatly before treatmeny

Method of measurement
 using visual analouge scale

Secondary outcomes

1

Description
 pain

Timepoint
 6 hours after treatment up to 2 days

Method of measurement
 using visual analouge scale

Intervention groups

1

Description
 Occlusal reducton

Category
 Prevention

2

Description
 without occlusal reduction

Category
 Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
 Oral and Dental Research center

Full name of responsible person
 Dr.Masoud Parirokh

Street address
 Endodontic Department, Kerman Dental School, Shafa Street

City
 Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
 Oral and Dental Resreach Center and Vice Chancellor for Research of Kerman University of Medical Sci

Full name of responsible person
 Mrs. Hasani

Street address
 Tahmasbabad cross, Jahad Street, Vice Chancellor for Research Building,

City
 Kerman

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Oral and Dental Research Center and Vice Chancellor for
Research of Kerman 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

Kerman University of Medical Sciences

Full name of responsible person

Nozar Nakhaee

Position

Research Manager/ Associate professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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Position

Professor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Alireza Rekabi

Position

Postgraduate student

Other areas of specialty/work

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76186

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Fax

Email

arekabi@gmail.com

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