

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison between prescription of regular or on-demand Ibuprofen on postoperative pain after two visit retreatment of molar teeth

Protocol summary

Summary

Introduction: Pain management is very important in endodontic practice. The aim of this study is to compare the effect of pain relief of on-demand versus regular prescription of ibuprofen after two-visit retreatment in molar teeth. methods: seventy maxillary or mandibular molar teeth that need retreatment will have two-visit root canal retreatment. after this treatment, patients will be randomly allocated to 2 groups of 35 patients each. patients in group 1 will receive a single dose of 400 mg ibuprofen and a rescue bag of the same medication. patients in group 2 will receive the same medication as group 1 after treatment and they will be also provided with a prescription to use 400 mg ibuprofen every 6 hours for at least 24 hours. the patients will be asked to rate their pain on a visual analog scale for up to 48 hours after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201611242016N8**

Registration date: **2016-12-04, 1395/09/14**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-12-04, 1395/09/14

Registrant information

Name

Masoud Parirokh

Name of organization / entity

Kerman University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology, Kerman University of Medical Sciences

Expected recruitment start date

2016-09-22, 1395/07/01

Expected recruitment end date

2017-03-19, 1395/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between prescription of regular or on-demand Ibuprofen on postoperative pain after two visit retreatment of molar teeth

Public title

effect of different factors on post retreatment pain

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: healthy patients with first or second molar with previous root canal therapy that need retreatment without sensitivity in percussion or with mild sensitivity, with or without periapical radiolucency, without severe periodontal disease in the tooth, exclusion criteria: patients with systemic disease, sensitivity to ibuprofen, gasteric disease, pregnancy, the hopeless tooth, third molar(wisdom tooth), severe periodontal disease in the tooth, use of any pain killer in 12 hours ago, use of any drug that effect in the central

nervous system, addicted persons, over instrumentation
RCT, patient under 18 years old

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic Committee of Kerman University of Medical
Sciences

Street address

Vice Chancellor of Research and Technology,
Tahmasbabad Cross road

City

kerman

Postal code

Approval date

2009-05-18, 1388/02/28

Ethics committee reference number

ir.kmu.REC.1395.12

Health conditions studied

1

Description of health condition studied

retreatment

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Postoperative pain

Timepoint

Six, 12, 24, 48 hours following the treatment

Method of measurement

Visual analogue scale

Secondary outcomes

1

Description

Analgesic consumption

Timepoint

48 hours following the treatment

Method of measurement

Using a specific form

Intervention groups

1

Description

case group 1: use of ibuprofen (minoo jel) 400 mg on
demandcase

Category

Treatment - Drugs

2

Description

group 2: use of ibuprofen (minoo jel) 400 mg by the clock

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Endodontic Department, Kerman Dental School

Full name of responsible person

Street address

City

kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology

Full name of responsible person

Dr. Abbas Pardakhti

Street address

Tahmasbabad cross road, Vice Chancellor for
Research and Technology building Kerman

City

kerman

Grant name

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

Yes

Title of funding source

Vice Chancellor for Research and Technology

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**

Vice Chancellor for Research and Technology

Full name of responsible person

Dr. Abbas pardakhti

Position

Dean of the center

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

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Endodontics Department, School of Dentistry

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Kerman School of Dentistry

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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*