Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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
Iran (Islamic Republic of)
Phone
+98 34 1245 7931
Email address
m_parirokh@kmu.ac.ir

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
Tahmasbabad cross road, Vice Chancellor for Research and Technology building Kerman
City
kerman
Postal code
Phone
+98 34 3226 3815
Fax
Email
kmu_research@yahoo.com 63
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Endodontics Department, School of Dentistry
Full name of responsible person
Masoud Parirokh
Position
Full Professor
Other areas of specialty/work
Street address
Endodontic Department, School of Dentistry, Shafa street
City
kerman
Postal code
Phone
+98 34 3245 7931
Fax
Email
masoudparirokh@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Kerman School of Dentistry
Full name of responsible person
Nargessalsadat Kashi
Position
Postgraduate student
Other areas of specialty/work
Street address
School of Dentistry, Shafa street
City
Kerman
Postal code
Phone
Fax
Email
nargessadat.kashi@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