

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Survey effect of metronidazole 0.75% gel on complications after mandibular molar teeth extraction

Protocol summary

Summary

The aim of this study was to see the effect of a 0.75% metronidazole gel on complications of problems after extraction of mandibular molar. Inclusion criteria was absent of local or systemic difficulties for teeth extraction, mandibular molar tooth that must be extracted. Symmetrical mandibular teeth in radiography that must be extracted. Exclusion criteria If teeth during extraction were broken or teeth need surgical extraction. Patients that use smoke or any drugs. This study was conducted on 20 males 20 to 30 years old during one year. For each patient two mandibular teeth were extracted. The 0.75% metronidazole gel was used in place of extracted teeth, as there was no material left in the other socket. After extraction the teeth, swelling, pain, dry socket was assessed and recorded.

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Email address

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Recruitment status

Recruitment complete

Funding source

Rafsanjan University of Medical Sciences

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201512195565N4**

Registration date: **2016-01-13, 1394/10/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-01-13, 1394/10/23

Registrant information

Name

Ali Peimani

Name of organization / entity

Rafsanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

Scientific title

Survey effect of metronidazole 0.75% gel on complications after mandibular molar teeth extraction

Public title

Effect of metronidazole gel on socket tooth healing

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Absent of local or systemic difficulties for teeth extraction; Mandibular molar tooth that must be extracted; Symmetrical teeth in radiography; Patients between 20-30 years
Exclusion criteria: If teeth during extraction were broken; If teeth need surgical extraction; Patients that use smoke or any drugs

Age

From **20 years** old to **30 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 20

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Rafsanjan university of medical sciences

Street address

Emam ali Avn., university central office

City

Rafsanjan

Postal code**Approval date**

2015-12-15, 1394/09/24

Ethics committee reference number

IR.RUMS.REC.1394.141

Health conditions studied**1****Description of health condition studied**

Inflammation due to tooth extraction

ICD-10 code

Y56.0

ICD-10 code description

Local antifungal, anti-infective and anti-inflammatory drugs, not elsewhere classified

Primary outcomes**1****Description**

dry socket

Timepoint

72 hours after tooth extraction

Method of measurement

Observation

2**Description**

pain

Timepoint

6,12, 24 and 48 hours after extraction tooth

Method of measurement

VAS

3**Description**

swelling

Timepoint

6,12, 24 and 48 hours after extraction tooth

Method of measurement

facial index in mm

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention: Metronidazole 0.75% gel immediately after tooth extraction

Category

Treatment - Drugs

2**Description**

Control: Any drug did not put in the tooth socket

Category

N/A

Recruitment centers**1****Recruitment center****Name of recruitment center**

Rafsanjan Dental School

Full name of responsible person

Dr Ali Peymani

Street address**City**

Rafsanjan

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Rafsanjan University of Medical Sciences

Full name of responsible person

Dr. Hakimy

Street address

University Central Office- Imam Ali Avn.

City

Rafsanjan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Rafsanjan 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

Rafsanjan university of Medical sciences

Full name of responsible person

Dr.ali peymani

Position

Maxillofacial surgeon and member of dental school

Other areas of specialty/work

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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