

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of oral administration of dexamethasone and Ibuprofen to reduce pain in patients after periodontal surgery

Protocol summary

Summary

The aim of this study is comparison of the effects of oral administration of Dexamethasone and Ibuprofen following periodontal surgery for reducing patient's pain and discomfort. 40 patients, with moderate to severe chronic periodontitis which require flap surgery in four quadrants of jaws for debridement are selected. The patients are divided into two equal groups with simple random sampling; group 1, patients who receive routine prescription 1 h before and after surgery (Ibuprofen 400 mg) and group 2, patients who receive 8 mg Dexamethasone tablets 1 h before surgery. This study is a single blind study in which just the practitioner and the data analyzer are aware of the used drug and patients do not know about it. Based on the amount of pain, the patients fill the questionnaire for eight hours on the first day (at intervals of one hour) and three times per day (morning, afternoon, evening) for 3 days after the surgery.

General information

Acronym

Periodontal surgery, Dexamethasone, Ibuprofen

IRCT registration information

IRCT registration number: **IRCT201411025029N3**

Registration date: **2015-05-30, 1394/03/09**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-05-30, 1394/03/09

Registrant information

Name

Fariborz Vafaei

Name of organization / entity

Hamadan University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Dental school, Hamadan University of Medical Science

Expected recruitment start date

2014-12-22, 1393/10/01

Expected recruitment end date

2015-03-11, 1393/12/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of oral administration of dexamethasone and Ibuprofen to reduce pain in patients after periodontal surgery

Public title

Comparison of Dexamethasone and Ibuprofen following oral surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Patients with moderate to severe chronic periodontitis and requires surgical debridement flap in 4 quadrants Exclusion Criteria: Patients with systemic disease, pregnant and breast feeding patients, patients with allergy to drugs, patients using antibiotic or pain relief drugs, patients with risk of infective endocarditis.

Age

From **30 years** old to **50 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

This study is a single blind study in which just the practitioner and the data analyzer are aware of the used drug and patients do not know about it.

Secondary Ids

empty

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

Hamadan University of Medical science

Street address

Ethics committee, School of dentistry, Hamedan University of Medical Sciences, Shahid fahmideh street

City

Hamedan

Postal code**Approval date**

2011-12-17, 1390/09/26

Ethics committee reference number

3217/9/35/16/P/D

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

chronic periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis : simplex periodontitis

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

Pain of patients after periodontal surgery

Timepoint

Completed questionnaires every hour for 8 hours the first day and 3 times a day (morning, afternoon, evening) at 3 days after surgery.

Method of measurement

NRS-101, VRS-4 questionnaire

Secondary outcomes

empty

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

Ibuprofen(Daana pharma Co production) 400 mg oral, 1 hour before surgery and 400 mg every 8 hours after surgery

Category

Treatment - Drugs

2**Description**

Dexamethasone(Iran hormone) tablets 8 mg oral, 1 hour before surgery

Category

Treatment - Drugs

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

School of Dentistry Hamadan university of Medical science

Full name of responsible person

Dr Shahram Sharifi

Street address

Periodontics department, Dental school, Hamedan University of Medical Sciences, Shahid fahmideh street

City

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

Vice chancellor for research, Dental school of Hamadan University of Medical Sciences

Full name of responsible person

Dr Shahin Kasraee

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Vice chancellor for research, Dental school, Hamedan
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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

Vice chancellor for research, Dental school of Hamadan
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

School of Dentistry Hamadan University of Medical
science

Full name of responsible person

DR Shahram Sharifi

Position

resident

Other areas of specialty/work

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assistant professor

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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