

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Comparison of the effectiveness of Celecoxib, Ibuprofen and Acetaminophen Codeine in pain relief after impacted lower third molar surgery

#### Protocol summary

##### Summary

Introduction: NSAIDs such as Ibuprofen are the most commonly used drugs for pain relief after impacted third molar surgery. Recently, new generation of these drugs have been introduced that act more selectively and have lower gastrointestinal side effects. As to our knowledge there are not enough studies about the effectiveness of these drugs, the objective of this study is to compare celecoxib with ibuprofen and acetaminophen codeine. Materials and Methods: This randomized clinical trial was done on 180 patients from whom attending oral and maxillofacial surgery department of Tehran university. Patients were divided into three groups to use a single dose of Celecoxib 100mg, Ibuprofen 400 mg or Acetaminophen Codeine( Acetaminophen 300mg + codeine 20mg) after surgery. A questionnaire was given to the patients to mark their pain intensity. Inclusion Criteria: impacted wisdom teeth, healthy medical history, no analgesic consumption in 24hours ago, no drugs addiction, no pregnancy and breastfeeding, no drugs sensitivity( Analgesics ,Non-steroidal anti-inflammatory drug commonly used, Cyclooxygenase-2 inhibitors)

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014113020158N1**  
Registration date: **2015-01-08, 1393/10/18**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2015-01-08, 1393/10/18

##### Registrant information

##### Name

Mohammad Ebrahimi Saravi

##### Name of organization / entity

Mazandaran University of Medical Sciences / Dentistry Faculty

##### Country

Iran (Islamic Republic of)

##### Phone

+98 11 3321 0830

##### Email address

mohammadebrahimisaravi@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

Tehran University of Medical Sciences

##### Expected recruitment start date

2014-12-22, 1393/10/01

##### Expected recruitment end date

2015-12-22, 1394/10/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the effectiveness of Celecoxib, Ibuprofen and Acetaminophen Codeine in pain relief after impacted lower third molar surgery

##### Public title

evaluation of decreasing pain of impacted wisdom teeth

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion Criteria: impacted wisdom teeth; healthy medical history; no gastrointestinal ulcer treatment in

30days ago; no analgesic consumption in 24hours ago; no drugs addiction; no pregnancy and breastfeeding; no drugs sensitivity( Analgesics ,Non-steroidal anti-inflammatory drug commonly used, Cyclooxygenase-2 inhibitors) ; no nasal polyps; no bronchospasm and angioedema.

#### Age

From **16 years** old to **70 years** old

#### Gender

Both

#### Phase

N/A

#### Groups that have been masked

No information

#### Sample size

Target sample size: **180**

#### Randomization (investigator's opinion)

Randomized

#### 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

tehran university of medical sciences

##### Street address

enghelab square

##### City

tehran

##### Postal code

#### Approval date

2008-09-22, 1387/07/01

#### Ethics committee reference number

4693

## Health conditions studied

### 1

#### Description of health condition studied

pain control

#### ICD-10 code

Chapter V

#### ICD-10 code description

F45.4 Persistent somatoform pain disorder

## Primary outcomes

### 1

#### Description

pain intensity

#### Timepoint

2,4,6,10,16,24 hours after surgery

#### Method of measurement

standard questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

ibuprofen 400 mg 2,4,6,10,16 and 24 hours after impacted wisdom teeth

#### Category

Treatment - Drugs

### 2

#### Description

celecoxib 100 mg 2,4,6,10,16 and 24 hours after impacted wisdom teeth

#### Category

Treatment - Drugs

### 3

#### Description

acetaminophen codeine 320 mg 2,4,6,10,16 and 24 hours after impacted wisdom teeth

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

oromaxillofacial surgery department of dental school of tehran university of medical sciences

##### Full name of responsible person

mohammad ebrahimi saravi

##### Street address

khazar BLV

##### City

sari

## Sponsors / Funding sources

### 1

#### Sponsor

Name of organization / entity

Tehran University of Medical Sciences  
**Full name of responsible person**  
Mohammad Ebrahimi Saravi  
**Street address**  
Khazar BLV  
**City**  
Sari  
**Grant name**  
**Grant code / Reference number**  
**Is the source of funding the same sponsor organization/entity?**  
Yes  
**Title of funding source**  
Tehran 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**  
mazandaran university of medical sciences  
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## Person responsible for updating data

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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*