

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 May 2026

### Comparison between Bromelain and Ibuprofen for postoperative pain control following dental implant placement surgery

#### Protocol summary

##### Study aim

The purpose of this study was to investigate the effect of Bromelain on Controlling the pain after an implant surgery and to compare its effectiveness with the commonly used drug is ibuprofen.

##### Design

Two arm parallel group randomised clinical trial design of 40 patients with single blinded

##### Settings and conduct

Among the patients referring to Implant Department of Tabriz Faculty of Dentistry, individuals who are eligible, will be informed .The patients were randomly divided into two groups of 20. For the first group, Ibuprofen 400mg was prescribed 5 days every 8 hours.For the second group, Bromelin 500 mg was prescribed for 5 days every 8 hours. Post-operative pain is initial outcome that will be assessed at 1, 3, 6, days after surgery with using visual analog scale (VAS). Also, patients are not aware of the drug and which group they are in.

##### Participants/Inclusion and exclusion criteria

inclusion criteria : Applicants without illness over the age of 18 who have not consumed any medication in the last two weeks. Applicant to replacement of missing teeth with implants in the first and second premolar regions of the maxilla or mandible. Based on CBCT assessments, there is a sufficient amount of bone in the toothless areas without the need for recovery and reconstruction.  
exclusion criteria : Applicants with systemic diseases that are treated with other medications. Smokers and alcoholics. Applicants with poor oral hygiene. Applicants who need bone graft. Applicants who need more than two implants. Applicants with surgical duration more than 45 minutes.

##### Intervention groups

1-The group that received the Ibuprofen 400after dental implant surgery. 2-The group that received the Ibuprofen 400after dental implant surgery.

##### Main outcome variables

The main variable in this study is pain, which is

measured by visual analog scale (VAS).

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20180513039628N1**

Registration date: **2018-08-29, 1397/06/07**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-08-29, 1397/06/07**

Update count: **0**

##### Registration date

2018-08-29, 1397/06/07

##### Registrant information

##### Name

Farhang Mahboub

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 3335 5965

##### Email address

mahboubif@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-07-16, 1397/04/25

##### Expected recruitment end date

2019-01-05, 1397/10/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

### Scientific title

Comparison between Bromelain and Ibuprofen for postoperative pain control following dental implant placement surgery

### Public title

Comparison between Bromelain and Ibuprofen for postoperative pain control following dental implant placement surgery

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Applicants without illness over the age of 18 who have not consumed any medication in the last two weeks. Applicant to replacement of missing teeth with implants in the first and second premolar regions of the maxilla or mandible. Based on CBCT assessments, there is a sufficient amount of bone in the toothless areas without the need for recovery and reconstruction.

#### Exclusion criteria:

Applicants with systemic diseases that are treated with other medications Smokers and alcoholics Applicants with poor oral hygiene Applicants who need bone graft Applicants who need more than two implants Applicants with surgical duration more than 45 minutes

### Age

From **18 years** old

### Gender

Both

### Phase

3

### Groups that have been masked

- Participant

### Sample size

Target sample size: **40**

### Randomization (investigator's opinion)

Randomized

### Randomization description

The randomization of the samples is according to the expert's opinion using the Randlist software

### Blinding (investigator's opinion)

Single blinded

### Blinding description

Patients are aware of the two generic groups but they are not aware which group they are in.

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

## 1

### Ethics committee

#### Name of ethics committee

Ethics committee in biomedical researches of Tabriz University of Medical Sciences

#### Street address

No.2 central building, Tabriz University of Medical Sciences, Golgasht Ave.

#### City

Tabriz

#### Province

East Azarbaijan

#### Postal code

5165665931

### Approval date

2017-08-14, 1396/05/23

### Ethics committee reference number

IR.TBZMED.REC.1396.476

## Health conditions studied

## 1

### Description of health condition studied

Pain control following dental implant placement surgery

### ICD-10 code

K00-K14

### ICD-10 code description

Diseases of oral cavity, salivary glands and jaws

## Primary outcomes

## 1

### Description

pain intensity

### Timepoint

day 1, 3 and 6 after surgery

### Method of measurement

Visual analogue Scale

## Secondary outcomes

empty

## Intervention groups

## 1

### Description

Intervention group : in intervention group Bromelain ,500 mg (Bromelain500-Parmoon Amin -Iran-Tehran) was prescribed an oral tablet for 5 days every 8 hours. Post-operative pain is initial outcome that will be assessed at 1, 3, 6, days after surgery with using visual analog scale (VAS).

### Category

Treatment - Drugs

2

### Description

Control group:in control group , Ibuprofen 400mg (Ibuprofen400-Abidi-Iran-Tehran) was prescribed an oral tablet for 5 days every 8 hours. Post-operative pain is initial outcome that will be assessed at 1, 3, 6, days after surgery with using visual analog scale (VAS).

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Faculty of Dentistry

#### Full name of responsible person

Farhang Mahboub

#### Street address

Faculty of Dentistry, Golgasht Ave.

#### City

Tabriz

#### Province

East Azarbaijan

#### Postal code

5166614711

#### Phone

+98 41 3335 5965

#### Email

mahboubif@tbzmed.ac.ir

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Tabriz University of Medical Sciences

#### Full name of responsible person

Dr Abolghasem Jouyban

#### Street address

No.2 central buiding, Tabriz University of Medical Sciences, Golgasht Ave.

#### City

Tabriz

#### Province

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#### Postal code

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#### Phone

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#### Email

mahboubif@tbzmed.ac.ir

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Tabriz University of Medical Sciences

### Proportion provided by this source

100

### Public or private sector

Public

### Domestic or foreign origin

Domestic

### Category of foreign source of funding

empty

### Country of origin

### Type of organization providing the funding

Academic

## Person responsible for general inquiries

### Contact

#### Name of organization / entity

Tabriz University of Medical Sciences

#### Full name of responsible person

Farhang Mahboub

#### Position

Associate professor

#### Latest degree

Specialist

#### Other areas of specialty/work

Dentistry

#### Street address

Faculty of Dentistry, Golgasht Ave.

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## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Tabriz University of Medical Sciences

#### Full name of responsible person

Farhang Mahboub

#### Position

Associate professor

#### Latest degree

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## Person responsible for updating data

### Contact

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Tabriz University of Medical Sciences

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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

### Study Protocol

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Not applicable

### Data Dictionary

Not applicable

### Title and more details about the data/document

The total potential data can be shared after unidentifiable Applicants.

### When the data will become available and for how long

6 months after printing results

### To whom data/document is available

Results are available to researchers and practitioner in the industry.

### Under which criteria data/document could be used

No specific requirements.

### From where data/document is obtainable

It can also be accessed via email.

mahboubif@tbzmed.ac.ir

### What processes are involved for a request to access data/document

After sending the email, you can access it utmost a month later.

### Comments