

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of Gelfoam and Bonehem in dental socket bleeding control in patients on low-dose Aspirin

Protocol summary

Dental socket bleeding post-tooth extraction

Study aim

Comparison of Gelfoam and Bonehem in dental socket bleeding control in patients on low-dose Aspirin

Design

A clinical trial with a control group, with parallel groups, double-blinded, randomized, phase 2 on 30 patients. A table of random numbers was used for randomization.

Settings and conduct

After approval by the Research Council of Shahid Beheshti Dental School, randomization will be done among the patients eligible to participate in the study, and they will be randomly divided into 3 groups. The study will be double-blinded in all three groups (patients and researchers are blinded). After tooth extraction, a method of hemostasis will be used based on each group, and post-treatment recommendations will be provided. the number of sterile gauze used after the treatment will show the results.

Participants/Inclusion and exclusion criteria

Inclusion criteria: healthy patients between the ages of 30 and 75 with ASA I-II treated with one 80 mg aspirin tablet daily who are candidates for non-surgical extraction of mandibular first or second molar teeth. Exclusion criteria: patients using other doses or different amounts of aspirin, using other anticoagulant drugs along with aspirin, candidate for socket preservation; with contraindications to use Bonehem (areas with infection) and Gelfoam (known allergy to porcine collagen); with wound healing disorders, with bone diseases, diagnosed with diabetes mellitus; diagnosed with autoimmune diseases; candidates for surgical tooth extraction, candidates for immediate implant placement.

Intervention groups

1: Patients in whom Gelfoam is used to control bleeding from the tooth socket. 2: Patients in whom Bonehem is used to control bleeding from the tooth socket. 3: patients in whom a figure-of-eight suture is used to control bleeding from the tooth socket.

Main outcome variables

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20221220056881N1**

Registration date: **2022-12-30, 1401/10/09**

Registration timing: **registered_while_recruiting**

Last update: **2022-12-30, 1401/10/09**

Update count: **0**

Registration date

2022-12-30, 1401/10/09

Registrant information

Name

Mohammad Hassan Mirtaleb

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2270 1377

Email address

mirtalebmohamad@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-12-22, 1401/10/01

Expected recruitment end date

2023-06-22, 1402/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Gelfoam and Bonehem in dental socket bleeding control in patients on low-dose Aspirin

Public title

Effect of Bonehem in Hemostasis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Healthy patients (ASA I/II) Under treatment with a single 80mg dose of Aspirin tablet daily Candidate for non-surgical removal of mandibular first and second molar teeth

Exclusion criteria:

Age

From **30 years** old to **75 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Care provider

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

People are randomly allocated to one of the three study groups using a random number and receive the intervention based on the group. First, a random number is allocated to each group; Coefficients of the number 3 are allocated to the first group, coefficients of 3 plus 1 are allocated to the second group, and coefficients of 3 plus 2 are allocated to the third group. For the distribution of the patients to each group, first, the direction of reading the numbers from the table is determined and then the researcher touches one of the numbers randomly and moves in one of the predetermined directions and records the numbers, and assigns the patient to the specified group.

Blinding (investigator's opinion)

Double blinded

Blinding description

The study will be double-blinded. Patients are blinded to the type of intervention, and the researcher who has to enter the data into the checklist will be blinded to the type of intervention.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shahid Beheshti University of Medical Sciences Ethics Committee

Street address

Shahid Beheshti University of Medical Sciences, Daneshjoo Blvd., Evin, Chamran Highway, Tehran

City

Tehran

Province

Tehran

Postal code

1983963113

Approval date

2022-11-14, 1401/08/23

Ethics committee reference number

IR.SBMU.DRC.REC.1401.070

Health conditions studied

1

Description of health condition studied

Bleeding after extraction of mandibular first and second molar teeth

ICD-10 code

T81.0

ICD-10 code description

Haemorrhage and haematoma complicating a procedure, not elsewhere classified

Primary outcomes

1

Description

socket haemorrhage

Timepoint

24 hours after tooth extraction

Method of measurement

number of sterile gauze required to stop bleeding after tooth extraction

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: a single Gelfoam (Surgifoam, Ethicon) is used on the dental socket after extraction without suturing the socket. A 10x10 sterile gauze is then placed on the socket and the patient is guided to slowly bite on the gauze.

Category

Treatment - Drugs

2

Description

Intervention group: a single Bonhem (from Chitotech company, based on hydroxyapatite and bioglass) is used on the dental socket after extraction without suturing the socket. A 10x10 sterile gauze is then placed on the socket and the patient is guided to slowly bite on the gauze.

Category

Treatment - Drugs

3

Description

Control group: A 3-0 silk (Supasil) figure-of-eight suture is used to suture the dental socket after extraction. A 10x10 sterile gauze is then placed on the socket and the patient is guided to slowly bite on the gauze.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Dental School

Full name of responsible person

Doctor Fateme Latifi

Street address

Shahid Beheshti University of Medical Sciences,
Daneshjoo Blvd., Evin, Chamran Highway, Tehran

City

Tehran

Province

Tehran

Postal code

1983963113

Phone

+98 21 2217 5350

Email

info@sbmu.ac.ir

Web page address

https://dentistry.sbmu.ac.ir

2

Recruitment center

Name of recruitment center

Behfar Dental Clinic

Full name of responsible person

Shiva Reyvandi

Street address

Damavand Street, Tehran

City

Tehran

Province

Tehran

Postal code

1644914989

Phone

+98 21 7781 3948

Email

info@sbmu.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

ChitoTech

Full name of responsible person

Ms. Mohammadi

Street address

Units 9 and 11, Khaghani Building, No 83, Somayyeh
street, Tehran

City

Tehran

Province

Tehran

Postal code

1571838318

Phone

+98 21 8832 1518

Email

info@chitotech.com

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

ChitoTech

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Industry

Person responsible for general inquiries

Contact

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Mohammad Hassan Mirtaleb

Position

Dental Student

Latest degree

A Level or less

Other areas of specialty/work

Dentistry

Street address

Shahid Beheshti University of Medical Sciences,

Daneshjoo Blvd., Evin, Chamran Highway, Tehran
City
Tehran
Province
Tehran
Postal code
1983963113
Phone
+98 21 2217 5350
Email
mirtalebmohamad@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Shahid Beheshti University of Medical Sciences
Full name of responsible person
Doctor Fateme Latifi
Position
Assistant Professor
Latest degree
Specialist
Other areas of specialty/work
Dentistry
Street address
Shahid Beheshti Dental School, Daneshjoo Blvd., Evin,
Chamran Highway, Tehran
City
Tehran
Province
Tehran
Postal code
1983963113
Phone
+98 21 2990 2307
Email
dr.f.latifi@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Shahid Beheshti University of Medical Sciences
Full name of responsible person
Mohammad Hassan Mirtaleb
Position
Dental Student
Latest degree
A Level or less
Other areas of specialty/work
Dentistry
Street address

Shahid Beheshti Dental School, Daneshjoo Blvd., Evin,
Chamran Highway, Tehran
City
Tehran
Province
Tehran
Postal code
1983963113
Phone
+98 21 2217 5350
Email
mirtalebmohamad@gmail.com

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

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Related medical information, clinical information, results of the study

When the data will become available and for how long

Approximately 6 months after publication

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

More detailed information about the study can be provided to competent researchers interested in the subject of the study

From where data/document is obtainable

Author (Mohammad Hassan Mirtaleb) via email: mirtalebmohamad@gmail.com

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

Competent and enthusiastic researchers can receive data documentation after the publication of the work from the corresponding author by providing their academic information and identification.

Comments