

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Effect of using Aloe vera gel on wound healing following periodontal flap surgery (clinical trial)

Protocol summary

Study aim

Effect of using Aloe vera gel on wound healing following periodontal flap surgery

Design

Two arm parallel group randomized double blinded trial with control group

Settings and conduct

This clinical trial will be performed on 22 patients at Tabriz Dental School.

Participants/Inclusion and exclusion criteria

Inclusion criteria: patient with indication of Widman flap
Non-inclusion criteria: History of antibiotic therapy in the past two months; the presence of a systemic disease that affects the periodontal condition; taking medication or having conditions that affect the periodontal condition; smoking; aggressive periodontitis

Intervention groups

Intervention group: One side of patient's jaw is inserted with aloe vera gel with periodontal dressing
Control group: on the opposite side of the same patient's jaw is placed a periodontal dressing without the aloe vera gel

Main outcome variables

Pain; gingival color; granulation tissue ; gingival consistency

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120702010155N6**

Registration date: **2019-11-15, 1398/08/24**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-15, 1398/08/24**

Update count: **0**

Registration date

2019-11-15, 1398/08/24

Registrant information

Name

Mohammad Taghi Chitsazi

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-11-06, 1398/08/15

Expected recruitment end date

2020-02-04, 1398/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of using Aloe vera gel on wound healing following periodontal flap surgery (clinical trial)

Public title

Effect of Aloe vera gel on wound healing following gingival surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

patient with indication of widman flap

Exclusion criteria:

Antibiotic use history up to 6 months
The presence of a systemic disease that affects the periodontal condition
Taking medication or having conditions that affect the

periodontal condition Smoking Aggressive Periodontitis

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: 22

Randomization (investigator's opinion)

Randomized

Randomization description

patients with odd ID are treated right side and patient whit even ID are treated left side

Blinding (investigator's opinion)

Double blinded

Blinding description

Since the aloe vera gel is mixed with the dressing and inserted after surgery, the patient is not aware of the use of aloe vera. On the other hand, the researcher is a non-surgical surgeon and has no knowledge of the gel used in the area.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, University Avenue, University Circle, Tabriz

City

Tehran

Province

Tehran

Postal code

2181455618

Approval date

2019-10-10, 1398/07/18

Ethics committee reference number

IR.TBZMED.REC.1398.681

Health conditions studied

1

Description of health condition studied

Periodontosis

ICD-10 code

K05.4

ICD-10 code description

Periodontosis

Primary outcomes

1

Description

pain

Timepoint

3, 7, 14 days after surgery

Method of measurement

Visual Analogue Scale (VAS)

2

Description

gingival color

Timepoint

7, 14 days after surgery

Method of measurement

visual (Red, coral pink, dark pink)

3

Description

granulation tissue

Timepoint

7, 14 days after surgery

Method of measurement

Visual (less than 2 mm mild, more than 2 mm severe)

4

Description

gingival consistency

Timepoint

7, 14 days after surgery

Method of measurement

periodontal prob

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Aloe vera gel in one side of the patient's jaw is put with periodontal dressing. At 7 and 14 days after surgery, patients will be evaluated and clinical parameters of gingival color and gingival consistency and granular tissue will be evaluated. At the 7th day after surgery, the patient will be asked about the ease of nutrition after surgery, as well as the pain

measurement guideline, previously taught to patients, to provide patients with pain relief. In the first 3 days after surgery, they will be assessed using the Visual Analog Scale (VAS) from zero (pain free) to 10 (worst pain perception).

Category

Treatment - Other

2**Description**

Control group: On the opposite side of the patient's jaw, periodontal dressing is inserted without aloe vera gel. At 7 and 14 days after surgery, patients will be evaluated and clinical parameters of gingival color and gingival consistency and granular tissue will be evaluated. At the 7th day after surgery, the patient will be asked about the ease of nutrition after surgery, as well as the pain measurement guideline, previously taught to patients, to provide patients with pain relief. In the first 3 days after surgery, they will be assessed using the Visual Analog Scale (VAS) from zero (pain free) to 10 (worst pain perception).

Category

Other

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

Dentistry faculty Tabriz university of medical sciences

Full name of responsible person

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

Tabriz University of Medical Sciences

Full name of responsible person

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

No

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

Mohammad Taghi Chitsazi

Position

professor

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

Study Protocol

Undecided - It is not yet known if there will be 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

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

Analytic Code

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

Data Dictionary

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