Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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 e 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 aloevera gel with periodontal dressing Control group:on the opposite side of the same patient's jaw is placed a periodontal dressing without the aloevera 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
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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 Vissual 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 Vissual Analog Scale (VAS) from zero (pain free) to 10 (worst pain perception).

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Dentisty faculty Tabriz university of medical sciences

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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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