

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Review of gingiva biotype and buccal bone thickness and supracrestal tissue thickness with dimensional changes of ridge following of tooth extraction

Protocol summary

Study aim

Determination of gingiva biotype and buccal bone thickness and supracrestal tissue thickness with dimensional changes of ridge following of tooth extraction.

Design

In this study, 30 patients who needed to extract the anterior teeth of maxilla have participated in the procedure. Before extracting the tooth, the gingiva biotype and supracrestal tissue thickness and buccal bone thickness at 1, 3 and 5 mm points of the bone crest and the size of the ridge dimensions at points 1 and 3 And 5 mm of bone crest was determined. Then the teeth were extracted and after 3 months the size of the ridge dimensions at 1, 3 and 5 mm points of bone crest was re-examined.

Settings and conduct

This research was conducted at the Tehran Dental University and 30 patients who needed to extract the anterior teeth of maxilla participated. Before extract the tooth, the gingival biotype with Colorvue biotype probe and supracrestal tissue thickness and buccal bone thickness at intervals of 1, 3 and 5 mm from the bone crest and the size of the ridge dimensions at 1, 3 and 5 mm intervals were determined by 3D radiography and then the teeth were extracted. After 3 months, the size of the ridge dimensions at 1, 3, and 5 mm intervals from the bone crest was measured by 3D radiography checked again.

Participants/Inclusion and exclusion criteria

Entry requirements: The person who need extraction anterior teeth of maxilla. Conditions of non-arrival: Those with a horizontal gingival analysis of more than 60%. People with dental infection. People who use antibiotics. People with Systemic Disease. People who take medications that increase gum volume. People with a pocket depth of at least 4 mm. People with a history of

gum surgery. People who smoke.

Intervention groups

In all subjects, the tooth extraction procedure is performed.

Main outcome variables

Gingival biotypes and thickness of supracrestal tissue and buccal bone thickness at 1, 3 and 5 mm intervals of bone crest and ridge dimensions at intervals of 1, 3 and 5 mm from bone crest after 3 months

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170419033535N3**

Registration date: **2018-02-11, 1396/11/22**

Registration timing: **registered_while_recruiting**

Last update: **2018-02-11, 1396/11/22**

Update count: **0**

Registration date

2018-02-11, 1396/11/22

Registrant information

Name

omid moghaddas

Name of organization / entity

islamic azad unicersity dental of teh

Country

Iran (Islamic Republic of)

Phone

+98 912 277 6280

Email address

o_moghaddas@dentaliau.ac.ir

Recruitment status

Recruitment complete

Funding source

have private source

Expected recruitment start date

2017-02-19, 1395/12/01

Expected recruitment end date

2018-02-20, 1396/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Review of gingiva biotype and buccal bone thickness and supracrestal tissue thickness with dimensional changes of ridge following of tooth extraction

Public title

Review of gingiva biotype and buccal bone thickness and supracrestal tissue thickness with dimensional changes of ridge following of tooth extraction

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

The person who need extraction anterior teeth of maxilla

Exclusion criteria:

The person that have horizontal atrophy more than 60%.
The person that have teeth infection. The person that need to use antibiotics. The person that have systemic diseases. The person use any drugs that cause increase volume of gingiva. The person that have pocket depth minimum 4 mm. The person who had gingiva surgery. The person that smoke.

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees

1

Ethics committee**Name of ethics committee**

Islamic Azad University of Dental of Tehran

Street address

Neyestan 9 Street, Pasdaran Ave, Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Approval date

2017-03-12, 1395/12/22

Ethics committee reference number

IR.IAU.DENTAL.REC.1395.31

Health conditions studied

1

Description of health condition studied

changes in ridge dimensions after tooth extraction

ICD-10 code

K08.2

ICD-10 code description

Atrophy of edentulous alveolar ridge

Primary outcomes

1

Description

gingiva biotype

Timepoint

3 months

Method of measurement

Colorvue biotype probe

2

Description

buccal bone thickness

Timepoint

3 months

Method of measurement

Cone Beam CT(CBCT)

3

Description

supracrestal thickness

Timepoint

3 months

Method of measurement

sounding method

Secondary outcomes

1

Description

dimensional changes of ridge

Timepoint

3 months

Method of measurement

Cone Beam CT (CBCT)

Intervention groups

1

Description

the extraction of teeth

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Islamic Azad University Dental of Tehran

Full name of responsible person

Omid Moghaddas

Street address

Neyestan 9 Street , Pasdaran Ave, Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2221 2517

Email

noruzifaranak9@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Arash Azizi

Street address

Neyestan 9 Street , Pasdaran Avenue , Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2256 4572

Email

noruzifaranak9@gmail.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Islamic Azad University

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

Islamic Azad University of Dental of Tehran

Full name of responsible person

Omid Moghaddas

Position

Assistant periodontist

Latest degree

Specialist

Other areas of specialty/work

Dentistry

Street address

Neyestan 9 Street, Pasdaran Avenue, Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2256 4572

Fax

Email

O_moghaddas@dentaliau.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University of Dental of Tehran

Full name of responsible person

Omid Moghaddas

Position

Assistand periodontist

Latest degree

Specialist

Other areas of specialty/work

Dentistry

Street address

Neyestan 9 Street , Pasdaran Avenue , Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2256 4572

Fax

Email

O_moghaddas@dentaliau.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Islamic Azad University of Dental of Tehran

Full name of responsible person

Zahra Noruzian Fard

Position

Dentistry student

Latest degree

Medical doctor

Other areas of specialty/work

Street address

Neyestan 9 Street , Pasdaran Ave, Tehran Town

City

Tehran

Province

Tehran

Postal code

19585175

Phone

+98 21 2221 2517

Fax

Email

Noruzifaranak9@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Title and more details about the data/document

Review of gingiva biotype and buccal bone thickness and supracrestal tissue thickness with dimensional changes of ridge following of tooth extraction in Referring to Islamic Azad University, Dental Branch of Tehran in 1395-1396

When the data will become available and for how long

Start the access period 6 months after printing the results.

To whom data/document is available

All people who need data can take action to get them.

Under which criteria data/document could be used

Analyzes that do not damage the outcome of our data analysis are allowed.

From where data/document is obtainable

Visit the Islamic Azad University of Dentistry in Tehran.

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

Visit the Islamic Azad University of Tehran Branch and apply for it and access the data for up to 1 week.

Comments