

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

evaluation of Semilunar coronally position flap with free gingival graft for root coverage.

Protocol summary

Summary

The principle object of periodontal treatment is to eliminate and control of etiologic factors, cessation of disease progress and obtain acquiesce biologic and functional outcome and obtain healthy and esthetic position that patents want to have it. marginal gingival recession is problem that all of the time can discontent patients from esthetic and root sensitivity perspective. Periodontal disease and traumatic use of root brush and another things can cause gingival recession. the aim of this study is evaluate of clinical outcome after treatment of marginal gingival recession with semilunar coronally reposition flap with free gingival graft technique. we think this technique with the lowest trauma and lowest patients inconvenience in comparison with other technique. twelve samples selected from patients they are gone to the academy of periodontology and implantology of babol dental university .and they have age range 18-65 and they want to treatment miller class I gingival recession in one or more teeth among maxillary and premolar. before and after 1,3 and six month of surgery. we will module and register amount of probing depth ,recession height, width of keratinized gingival and clinical attachment level with william's probe at midbuccal of respective teeth.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201101015519N1**

Registration date: **2011-04-24, 1390/02/04**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-04-24, 1390/02/04

Registrant information

Name

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Name of organization / entity

Babol University of Medical sciences, Dental school

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Recruitment status

Recruitment complete

Funding source

Babol univrsity of medical science, dental school

Expected recruitment start date

2010-09-27, 1389/07/05

Expected recruitment end date

2011-11-26, 1390/09/05

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

evaluation of Semilunar coronally position flap with free gingival graft for root coverage.

Public title

evaluation of Semilunar coronally position flap with free gingival graft for root coverage.

Purpose

Treatment

Inclusion/Exclusion criteria

INCLUSION CRITERIA: age range 18-65 and miller class I gingival recession in one or more teeth among maxillary incisors ,canines and premolars. EXCLUSION CRITERIA: systemic disease ,it can has effect on tissue healing ,for

example , uncontrolled diabete ,immune deficiency disease ,local & systemic bone disease, history of alcohol consumption , cigarette consumption , pregnancy ,consumption of immune drugs and anti coagulant, don't have adequate cooperation , untreatment periodontal disease ,can not do oral hygiene procedure or don't want to have oral hygiene .

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **12**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

after complete examination of patients and oral hygiene instruction ,we will start scaling/root planning and complete polishing with rubber cap and light abrasive paste in 2 session. we will start treatment when patient can have good and adequate oral hygiene and eliminate microbial plaque. we will use plaque index (sillness & loe) for evaluating periodontal condition in all time o this study. Before and after 1,3 and 6 month of surgery we will module and register amount of probing depth, recession width, recession height ,width of keratinized tissue ,clinical attachment level with William's probe at mid buccal of tooth.SURGICAL PROCEDURE:Tarnow technique (semilunar coronally positioned flap) surgery is primed with local anesthesia with lidocain contain epinephrine . semilunar incision is made following the curvature of the recede gingival margin and ending about 2-3mm short of the tip of the papillae. Derives all its blood supply from the Papillary area. the incision may need to reach the alveolar mucosa if the attach gingival is narrow.perform a split thickness dissection coronally from the incision .the tissue will collapse coronally ,covering the denuded root it is then held in its new position for a few minutes with moist gauze. there is no need to suture or to pack. this technique is very simple and predictably provide 2-3mm of root coverage. In technique was suggested in our research after incision at MGJ and coronally displaced of the tissue in apically position, tissue graft that supplies from the hard palate (first molar and premolar area)and have 1mm thickness and with the holding [vicryl (5-0)]suturing stable in its position. donor site is sutured with silk (3-0).after dressing prescribe amoxicillin (500mgr TID) and for prevent of pain and inflammation NSAIDs (ibuprofen 400mgr QID) is prescribed for one week. Mouth wash

chlorhexidine (0.2%) (manufacture of royaye behdasht factory) is prescribed for two weeks. donor site dressing and change it after 7 days and remove after 14 days. We remove suture after 14 days and patient except surgery location perform a usual oral hygiene procedure. use of tooth brush at surgery location is prohibited for 1 month. and remove microbial plaque with the cotton swab that sinking in chlorhexidine. After 4 weeks we will educate patients to use soft tooth brush and use roll technique as atraumatic procedure for cleaning a surgical location. patients will visit every week at a first months and after 3 and 6 month after surgery every 3 month complete oral hygiene procedure will perform.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Babol University of Medical Sciences

Street address

Mazandaran ,Babol-Gang afrooz ave,University of Medical Sciences

City

Babol

Postal code

Approval date

2011-02-08, 1389/11/19

Ethics committee reference number

302986/ژاڤ

Health conditions studied

1

Description of health condition studied

Gingival recession

ICD-10 code

K06.0

ICD-10 code description

Gingival recession

(generalized)(localized)(postinfective)(post-operative)

Primary outcomes

1

Description

Probing depth

Timepoint

1,3,6 month

Method of measurement

in the mid- buccal region by William's prob in millimeter

2

Description

recession width

Timepoint

1,3,6 month

Method of measurement

in the mid- buccal region by William's prob in millimeter

3

Description

recession height

Timepoint

1,3,6 month

Method of measurement

in the mid- buccal region by William's prob in millimeter

4

Description

width of keratinized gingiva

Timepoint

1,3,6 month

Method of measurement

in the mid- buccal region by William's prob in millimeter

5

Description

clinical attachment level

Timepoint

1,3,6 month

Method of measurement

in the mid- buccal region by William's prob in millimeter

Secondary outcomes

empty

Intervention groups

1

Description

SURGICAL PROCEDURE: Tarnow technique (semilunar coronally positioned flap) surgery is primed with local anesthesia with lidocain contain epinephrine .step1: semilunar incision is made following the curvature of the recede gingival margin and ending about 2-3mm short of the tip of the papillae. Derives all its blood supply from the Papillary area. the incision may need to reach the alveolar mucosa if the attach gingival is narrow. step 2:perform a split thickness dissection coronally from the incision .step 3: the tissue will collapse coronally ,covering the denuded root it is then held in its new position for a few minutes with moist gauze. there is no need to suture or to pack. this technique is very simple and predictably provide 2-3mm of root coverage. In technique was suggested in our research after incision at MGJ and coronally displaced of the tissue in apically position, tissue graft that supplies from the hard palate (first molar and premolar area)and have 1mm thickness and with the holding [vicryl (5-0)]suturing stable in its position. donor site is sutured with silk (3-0).after dressing prescribe amoxicillin (500mgr TID) and for

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Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Department of Periodontology and Implantology of Babol Dental School

Full name of responsible person

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City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Babol University of Medical Sciences . Dental School

Full name of responsible person

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Street address

Babol ,Gang afrooz ave,University of Medical Science

City

Babol

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Babol University of Medical Sciences . Dental School

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty