

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jun 2026

Comparative evaluation of microbial colony count of sutures with and without use of periodontal pack after modified widman flap surgery

Protocol summary

Summary

This study will be conducted to find the appropriate procedure to reduce the microbial pollution in surgical site after periodontal surgery. Thirty two patients who are candidate for modified widman flap surgery in jaws and could have good plaque control will be recruited. The surgery will be performed on one side of jaw which is randomly selected and surgical site sutured with silk (supusil , 26, 3-0) in form of direct loop and covered with periodontal pack ; after one week the patient will be recalled and the pack and the sutures are removed. Three of sutures will be transferred by a sterile vial containing phosphate buffered saline. The vials will be shaken for 45 minutes so that all of attached bacteria detach. The prepared solution carry to chocolate agar, blood agar, EMB culture medias and incubate in 37C for 24 hours. Then 100 µl of each of culture media is taken and added to McFarland tubes and the colony count of bacteria will be detected with McFarland dilution series. After 3 week interval the other side will be treated with M.W.F surgery and the surgical site is sutured with the same sutures and the patient is discharged without periodontal pack. After a week the sutures are removed and the same procedure is done and finally results will be compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201011034877N2**

Registration date: **2011-05-03, 1390/02/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-05-03, 1390/02/13

Registrant information

Name

Jaber Yaghini

Name of organization / entity

Isfahan University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 31 1434 2136

Email address

j_yaghini@dnt.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Faculty of Dentistry, Isfahan University of Medical Sciences

Expected recruitment start date

2010-12-05, 1389/09/14

Expected recruitment end date

2011-03-17, 1389/12/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of microbial colony count of sutures with and without use of periodontal pack after modified widman flap surgery

Public title

Evaluation of microbial pollution related to periodontal packs after periodontal surgery. Surgery

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria The patients who are candidate for

M.W.F in 2 quadrants of a jaw or opposite jaws. Having the equal number of teeth in both sides of jaw or in opposite jaws. Exclusion criteria: Smoking, having clinical or radiological problem other than periodontal disease
Use of antibiotics.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 64

Randomization (investigator's opinion)

Randomized

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Vice Chancellor for research, Isfahan Faculty of Dentistry

Street address

Vice Chancellor for research - Isfahan Faculty of Dentistry

City

Isfahan

Postal code**Approval date**

2010-05-21, 1389/02/31

Ethics committee reference number

389157

Health conditions studied**1****Description of health condition studied**

Periodontal Diseases

ICD-10 code

k05.6

ICD-10 code description

Periodontal Diseases Unspecified

Primary outcomes**1****Description**

Microbial colony count

Timepoint

One week after intervention

Method of measurement

Counts of microbial colony per ml

Secondary outcomes

empty

Intervention groups**1****Description**

Administration of periodontal pack in intervention site

Category

Prevention

2**Description**

Not using the periodontal pack in control site

Category

N/A

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

Ghaedi Dentistry Clinic

Full name of responsible person

Dr. Jaber Yaghini

Street address

Baborahmeh st- Emam Hossein sq- Isfahan

City

Isfahan

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

Vice chancellor for research, Faculty of Dentistry, Isfahan University of Medical Sciences

Full name of responsible person

Dr. Omid Savabi

Street address

Faculty of Dentistry, Isfahan University of Medical Sciences

City

Isfahan

Grant name**Grant code / Reference number**

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

Yes

Title of funding source

Vice chancellor for research, Faculty of Dentistry, Isfahan University of Medical Sciences

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

Name of organization / entity

Isfahan Faculty of Dentistry

Full name of responsible person

Dr.Jaber Yaghini

Position

Proficiency in Periodontics

Other areas of specialty/work

Street address

Department of Periodontology, Faculty of Dentistry, Isfahan University of Medical Sciences

City

Isfahan

Postal code

Phone

+98 31 1792 2842

Fax

Email

J_Yaghini@dnt.mui.ac.ir

Web page address

Person responsible for scientific

inquiries

Contact

Name of organization / entity

Isfahan Faculty of Dentistry

Full name of responsible person

Dr.Jaber Yaghini

Position

Proficiency in Periodontics

Other areas of specialty/work

Street address

Periodontology Department, Faculty of Dentistry, Isfahan University of Medical Sciences

City

Isfahan

Postal code

Phone

+98 31 1792 2842

Fax

Email

J_Yaghini@dnt.mui.ac.ir

Web page address

Person responsible for updating data

Contact

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