

# 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 microliters 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

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**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**

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**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*