

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### The Effect of administration of Amoxicillin after Implant surgery on Bacterial colonization adjacent to Implant Surgical Site: Microbiologic Study

#### Protocol summary

##### Summary

Fifty patients are going to be selected according to the stated inclusion (20-60 years old, partial edentulous patients, at most 2 implants, non-submerged technique) and exclusion (systemic diseases, smoker patients, periodontal involved, need to bone augmentation procedures in surgical area) criteria. Provided the patients accept to participate in the study, they are assigning to test (administering Amoxicillin "500 mg" after implant surgery) and control (administering placebo after implant surgery) groups, randomly. Drugs are prescribed every eight hours for seven days. Samples are taken from the sites adjacent to the implant with a paper-point 30 minutes and one week after implant placement. Samples are then sent to microbiologic department to culture the bacteria growing in the paper-point. The changes in the bacterial colonization are going to be assessed inter-groups and intra-group.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138706101150N1**  
Registration date: **2008-10-29, 1387/08/08**  
Registration timing: **prospective**

Last update:

Update count: **0**

##### Registration date

2008-10-29, 1387/08/08

##### Registrant information

###### Name

Neda Moslemi

###### Name of organization / entity

Tehran university of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 8897 3902

##### Email address

nmoslemi@razi.tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Dental faculty - Tehran University of Medical Sciences

##### Expected recruitment start date

2008-11-22, 1387/09/02

##### Expected recruitment end date

2012-01-01, 1390/10/11

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The Effect of administration of Amoxicillin after Implant surgery on Bacterial colonization adjacent to Implant Surgical Site: Microbiologic Study

##### Public title

The Effect of Amoxicillin on Bacterial colonization adjacent to Implant Surgical Site

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: 1- 20-60 years old patients. 2- partial edentulous patients 3- At most, two implants are inserted 4- non-submerged surgical technique Exclusion criteria: 1- Smoker patients 2- periodontal involved 3- need to perform bone augmentation procedures in surgical area 4- patients who are involved in relevant

systemic diseases

### Age

From **20 years** old to **60 years** old

### Gender

Both

### Phase

3

### Groups that have been masked

*No information*

### Sample size

Target sample size: **50**

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Double blinded

### Blinding description

### Placebo

Used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Tehran University of Medical Sciences

##### Street address

Ghods Ave., Keshavarz Blv., Tehran University of Medical Sciences

##### City

Tehran

##### Postal code

99694-47166

##### Approval date

2008-07-01, 1387/04/11

##### Ethics committee reference number

7060-70-02-87

## Health conditions studied

### 1

#### Description of health condition studied

Prophylactic antibiotic administration after dental implant surgery

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

microbial colonization

### Timepoint

30 minutes after surgery and 1 week after surgery

### Method of measurement

Microbiologic culture

## Secondary outcomes

### 1

#### Description

pain

#### Timepoint

One week after surgery

#### Method of measurement

Visual scale

### 2

#### Description

swelling

#### Timepoint

One week after surgery

#### Method of measurement

Observation (yes/no)

## Intervention groups

### 1

#### Description

Intervention group: Amoxicillin administration, 500mg/8h for one week

#### Category

*empty*

### 2

#### Description

placebo administration in control group

#### Category

*empty*

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Dental faculty

##### Full name of responsible person

Neda Moslemi

##### Street address

Ghods Ave., Keshavarz Blv., Dental Faculty, Tehran University of Medical Sciences

##### City

Tehran

## Sponsors / Funding sources

## 1

### Sponsor

**Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Neda Moslemi

**Street address**

Ghods Ave., Keshavarz Blv., Dental Faculty, Tehran  
University of Medical Sciences

**City**

Tehran

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Tehran 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**

Dental Faculty-Tehran University of Medical Sciences

**Full name of responsible person**

Neda Moslemi

**Position**

Periodontist / Assistant Professor

**Other areas of specialty/work****Street address**

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### Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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Sciences

**Full name of responsible person**

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**Position**

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**Web page address**

### Person responsible for updating data

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Dental Faculty of Tehran University of Medical  
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**Position**

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**Web page address**

### 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*