Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Nov 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)

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+98 21 8897 3902

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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 fter 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

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Neda Moslemi
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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
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Person responsible for updating data

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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