

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Assessing the effectiveness of chlorhexidine rinse before scaling on the amount of alpha-hemolytic streptococcus and staphylococcus aureus.

Protocol summary

Summary

This is an interventional study in a randomized clinical trial. Fifty medically healthy patients who present to the Periodontology Department of Dentistry College enter to the study. After assessment of plaque index, according to this value, each patient belongs to one of the groups; study or control in a randomized manner. Ten minutes before scaling patients rinse with 50 ml chlorhexidine or normal saline in each group. Supra gingival Scaling will be done for anterior teeth of mandible, and thereafter sampling will be done of buccal and lingual gingival grooves by means of paperpoint. These samples in a liquid transport medium, will be sent to microbiology laboratory for colony count enumeration of alpha-hemolytic streptococcus and staphylococcus aureus. This microbial flora can enter to blood circulation during scaling procedure and can be related to bacterial endocarditis in susceptible patients. So the effectiveness of an antimicrobial mouthwash can be useful in endocarditis prevention due to dental scaling in susceptible patients.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013110115233N1**

Registration date: **2014-01-02, 1392/10/12**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-01-02, 1392/10/12

Registrant information

Name

Samira Hajimaghsoodi

Name of organization / entity

Yazd University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Yazd University of Medical Sciences.

Expected recruitment start date

2014-01-05, 1392/10/15

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessing the effectiveness of chlorhexidine rinse before scaling on the amount of alpha-hemolytic streptococcus and staphylococcus aureus.

Public title

mouth wash effect on oral microbial load in the time of scaling

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: all patients present to the Periodontology Department of Dentistry College who need scaling of anterior mandible teeth; lacking diabetes mellitus, HIV and current pregnancy; lacking antibiotic consumption during the past 3 month; lacking oral corticosteroid consumption during the past month;

lacking necessity of antibiotic prophylaxis; lacking active dental caries or infection in the area of sampling.
Exclusion criteria: loss of tendency to participate in this study.

Age

No age limit

Gender

Both

Phase

N/A

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

Shahid Sadoughi University of Medical Science

Street address

Bahonar square

City

Yazd

Postal code

Approval date

2013-03-17, 1391/12/27

Ethics committee reference number

17/1/188722/پ

Health conditions studied

1

Description of health condition studied

gingival Staphylococcus aureus colony forming unit

ICD-10 code

B95.6

ICD-10 code description

Staphylococcus aureus as the cause of diseases
classified to other chapters

2

Description of health condition studied

gingival Streptococcus group A colony forming unit

ICD-10 code

B95.0

ICD-10 code description

Streptococcus, group A, as the cause of diseases
classified to other chapters

Primary outcomes

1

Description

number of staphylococcus ureous colonies

Timepoint

10 minutes after intervention

Method of measurement

counting staphylococcus ureous colonies per each mililiter
of sample

2

Description

number of streptococcus viridance colonies

Timepoint

10 minutes after intervention

Method of measurement

counting streptococcus viridance colonies per each
mililiter of sampel

Secondary outcomes

1

Description

plaque index

Timepoint

before intervention

Method of measurement

number of plaque positive dental surfaces

Intervention groups

1

Description

in the case group rinsing with 50 ml chlorhrxidine 0.2%
mouthwash for one minute.

Category

Prevention

2

Description

in control group rinsing with 50 ml normal saline for one
minute.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontology Department of Dentistry College

Full name of responsible person

Dehghan Soghra

Street address

Dentistry college, Emem street

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Medical Science

Full name of responsible person

Mrs Maserrat

Street address

Dentistry College, Emam street

City

Yazd

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

Yes

Title of funding source

Shahid Sadoughi University of Medical Science

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**

Dentistry College

Full name of responsible person

Samira Hajimaghsoodi

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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