

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Comparative evaluation of clinical efficacy of manual Classic and manual Superbrush toothbrushes in plaque removing from the teeth surface of students

Protocol summary

Summary

Objectives: The purpose of this study is to compare the clinical efficacy of manual Classic and manual Superbrush toothbrushes on plaque and bleeding indices. **Design:** This clinical trial will be conducted on 30 volunteer dental students of dental school of Kerman medical university. After taking an informed consent, patients will be randomly divided into two groups with simple method: group A (Classic toothbrush; Soft, Tepe, sweden) and group B (Superbrush toothbrush; Soft, Dentaco AS, Haukeland, Norway). **Setting and conduct:** A prophylaxis will be performed to achieve the plaque index of zero and then subjects are inhibited from doing any plaque control activity for 48 hours. Afterward the baseline plaque and bleeding point indices will be recorded and they will be given a common toothpaste (Crest). All participants will instruct to use both types of toothbrush for at least 3 minutes twice a day, using the Bass method without using dental floss. Each group will start the experiment with a different type of toothbrush for one week which will be followed by one week of washout. Then each group will switch to the next type of toothbrush for one week, and both plaque level and bleeding point indices will be recorded again with the same method, while the examiner is blind to trial type. **Participants including major eligibility criteria:** They are systemically healthy and able to attend for the period of the trial, having at least 20 natural teeth and not having orthodontic appliances or implants. **Intervention:** Using of the specified toothbrushes and not doing other oral hygiene procedures. **Main outcome:** Removing the plaque from the teeth.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015051517619N3**

Registration date: **2015-06-27, 1394/04/06**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-06-27, 1394/04/06

Registrant information

Name

Fereshteh Moosaali

Name of organization / entity

Kerman University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34 1211 9023

Email address

moosaaly@kmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Kerman university of medical sciences

Expected recruitment start date

2013-10-02, 1392/07/10

Expected recruitment end date

2013-11-05, 1392/08/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of clinical efficacy of manual

Classic and manual Superbrush toothbrushes in plaque removing from the teeth surface of students

Public title

The efficacy of two manual toothbrushes on plaque and bleeding indices

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Having at least 20 natural teeth.
Exclusion criteria: Systemic disease that may effect the oral condition; caries; pregnancy; history of drug/alcohol abuse; smoking; presence of orthodontic appliances or implants; extensive restorations and periodontitis.

Age

From **19 years** old to **30 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kerman university of medical sciences

Street address

Kerman University of Medical Sciences, Shafa St.

City

Kerman

Postal code

Approval date

2013-09-23, 1392/07/01

Ethics committee reference number

K/92/178

Health conditions studied

1

Description of health condition studied

Plaque and bleeding point indices

ICD-10 code

K05.6

ICD-10 code description

Periodontal disease, unspecified

Primary outcomes

1

Description

Plaque index

Timepoint

1st day, 7th day and two week after intervention

Method of measurement

O`Leary plaque index

2

Description

Bleeding point index

Timepoint

1st day, 7th day and two week after intervention

Method of measurement

Periodontal probe

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: brushing with classic toothbrush. The Classic toothbrush is a simple, straight-forward toothbrush. When used twice daily as part of an overall oral hygiene regimen that includes between-teeth cleaning, the Classic toothbrush will help to take good care of dental health.

Category

Prevention

2

Description

Intervention group 2: brushing with Superbrush toothbrush. Superbrush is a triple headed brush that cleans three surfaces of the teeth and gum margins simultaneously.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Kerman University of Medical Sciences

Full name of responsible person

Dr. Abbas Pardakhti

Street address

Vice Chancellor for Research, Kerman University of Medical Sciences, Kerman, Iran.

City

Kerman

+98 34 3211 9023

Fax**Email**

Sasan_salahi@yahoo.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Kerman University of Medical Sciences

Full name of responsible person

Dr. Fereshteh Moosaali

Position

Periodontist and member of dental school

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

Periodontology department, Dental faculty, Kerman University of Medical Sciences

City

Kerman

Postal code**Phone**

+98 34 3211 9023

Fax**Email**

moosaaly@kmu.ac.ir

Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice Chancellor for Research, Kerman University of Medical Sciences

Full name of responsible person

Dr. Abbas Pardakhti

Street address

Kerman University of Medical Sciences, Kerman, Iran.

City

Kerman

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, Kerman 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**

Kerman University of Medical Sciences

Full name of responsible person

Dr. Sasan Salahi

Position

Periodontist and member of dental school

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

Periodontology department, Dental faculty, Kerman University of Medical Sciences, Shafa St., Kerman, Iran

City

Kerman

Postal code**Phone****Person responsible for updating data****Contact****Name of organization / entity**

Kerman University of Medical Sciences

Full name of responsible person

Dr. Fereshteh Moosaali

Position

Periodontist and member of dental school

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

Periodontology department, Dental faculty, Kerman University of Medical Sciences

City

Kerman

Postal code**Phone**

+98 34 3211 9023

Fax**Email**

Moosaaly@kmu.ac.ir

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