

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the effect of different plaque control training methods on the periodontal status of patients referred to the Periodontology Department

Protocol summary

Study aim

Comparison of the effect of different plaque control training methods on the periodontal status of patients referred to the Periodontology Department of Zanjan University of Medical Sciences in 2001

Design

After completing the file and recording the basic information, the plaque index and gingival index of the patients were measured. Then the patients were randomly divided into 3 groups so that each group had a different plaque control training method. The patients were examined in terms of periodontal indicators and the presence of caries and group matching was done in all three groups. People referring to the clinic department of Zanjan University of Medical Sciences, after checking the entry criteria, were included in the study and were randomly assigned to three groups. Random block method with equal block volume was used. Randomized blocks were generated in the R software environment. Two weeks after receiving the training, the patients were invited to the faculty for a review period, so that the specified indices were measured again and their results were compared through statistical analysis.

Settings and conduct

Zanjan University of Medical Sciences

Participants/Inclusion and exclusion criteria

All patients who refer to the perioperative department to receive the first phase treatments. Entry criteria: Patients with periodontal disease (gingivitis or periodontitis) referred to the periodontal department of the Faculty of Dentistry Having informed consent to participate in the study Being between 18 and 50 years old (in order to take the meetings seriously and also to be able to understand the contents)

Intervention groups

The first group of video training, the second group of training with brochures and the third group of training in

person (with replicas)

Main outcome variables

Periodontal status of patients

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180516039682N4**

Registration date: **2023-08-08, 1402/05/17**

Registration timing: **prospective**

Last update: **2023-08-08, 1402/05/17**

Update count: **0**

Registration date

2023-08-08, 1402/05/17

Registrant information

Name

Raheleh Akhavan rasoolzadeh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 24 3314 8101

Email address

r.rasoolzadeh@zums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-09-20, 1402/06/29

Expected recruitment end date

2023-10-07, 1402/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of different plaque control training methods on the periodontal status of patients referred to the Periodontology Department

Public title

different plaque control training methods and the periodontal status of patients

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients with periodontal disease (gingivitis or periodontitis) referred to the Periodontology Department of the Faculty of Dentistry. Informed consent to participate in the study

Exclusion criteria:**Age**

From **18 years** old to **50 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Random allocation will be done using Excel software. The letters A, B and C are used to represent each group. According to the sample number of 30 people in each group, the letter A is entered 30 times, the letter B 30 times, and the letter C 30 times in a column (we will have a column containing 90 rows with the values of A, B, and C). Then, in the second column, we generate a random number using the RAND function. We sort the data based on the column values containing random numbers (ascending or descending). With this sorting, the placement order of A, B and C is also changed and placed randomly. According to the order of appearance of A, B and C, the samples are assigned to three groups.

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**

Ethics committee of Zanjan University of Medical Sciences

Street address

Mahdavi Ave

City

Zanjan

Province

Zanjan

Postal code

4513956184

Approval date

2023-02-01, 1401/11/12

Ethics committee reference number

IR.ZUMS.REC.1401.321

Health conditions studied**1****Description of health condition studied**

periodontal

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Plaque control record

Timepoint

At the beginning of the study and two weeks after the end of the intervention

Method of measurement

Oral examination

2**Description**

Gingival index

Timepoint

At the beginning of the study and two weeks after the end of the intervention

Method of measurement

Oral examination

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Video tutorial

Category
Behavior

2

Description
Intervention group: Training with brochures
Category
Behavior

3

Description
Intervention group: face-to-face training (with maquette)
Category
Behavior

Recruitment centers

1

Recruitment center
Name of recruitment center
Clinic department of Zanjan University of Medical Sciences Faculty of Dentistry
Full name of responsible person
Roya karami
Street address
Mahdavi Ave
City
zanjan
Province
Zanjan
Postal code
4513956184
Phone
+98 24 3314 8100
Email
dentist@zums.ac.ir

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Zanjan University of Medical Sciences
Full name of responsible person
Vice President of Research
Street address
Mahdavi Ave
City
zanjan
Province
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Postal code
4513956184
Phone
+98 24 3301 8000
Email
info@zums.ac.ir
Grant name

Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Zanjan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact
Name of organization / entity
Zanjan University of Medical Sciences
Full name of responsible person
Raheleh akhavan Rasoolzadeh
Position
Assistant professor
Latest degree
Specialist
Other areas of specialty/work
Dentistry
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Person responsible for scientific inquiries

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The information entered in the execution method will be accessible in the same way and with the existing coding

When the data will become available and for how long

One month after the publication of the article

To whom data/document is available

For all applicants

Under which criteria data/document could be used

Any use of data with reference to the source

From where data/document is obtainable

Email to the author or visit the faculty

What processes are involved for a request to access data/document

There is no special process

Comments

Person responsible for updating data

Contact

Name of organization / entity
Zanjan University of Medical Sciences
Full name of responsible person
Raheleh Akhavan Rasoulzadeh
Position
assistant professor
Latest degree
Specialist
Other areas of specialty/work
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