

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 Jun 2026

### comparison of the effect of dental brush and waterjet on dental plaque

#### Protocol summary

##### Study aim

The comparison between the effects of dental brush and waterjet on dental plaque in dental students of azad university of Tehran in 2019

##### Design

40 students randomly selected and divided into 2 group of 20's, split mouth design has been used for this study. before the study the plaque index will be calculated with plauque disclosing tablets. for the first group they will be told to use toothbrush for the left side and waterjet for the right side.for group 2, they will do the other way round. at the end the plaque index must be calculated again to find the changes and all the result should go through SPSS and will be analyzed

##### Settings and conduct

type of study is clinical trial. and the candidates are from dental students of azad university of Tehran. there will be 40 students in the study. the sampling technique will be randomly done and candidates will be In group of intervention and control groups

##### Participants/Inclusion and exclusion criteria

inclusion criteria: 1- candidate must have dental plaque  
2- candidate must be over 18 years old  
exclusion criteria: 1- candidate has a single missing tooth  
2- candidate less than 18 years old

##### Intervention groups

any candidates using waterjet on any side of the jaw will be included in intervention group, and any candidates using tooth brush on the other side will be in control group

##### Main outcome variables

find primary and secondary plaque index, reducing in the level of plaque will be expected

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20190519043638N1**

Registration date: **2019-06-14, 1398/03/24**

Registration timing: **retrospective**

Last update: **2019-06-14, 1398/03/24**

Update count: **0**

##### Registration date

2019-06-14, 1398/03/24

##### Registrant information

###### Name

Ardeshir Amirhosseini

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 8805 7793

###### Email address

ardi.77@live.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2019-02-09, 1397/11/20

##### Expected recruitment end date

2019-02-16, 1397/11/27

##### Actual recruitment start date

2019-02-17, 1397/11/28

##### Actual recruitment end date

2019-02-22, 1397/12/03

##### Trial completion date

2019-02-24, 1397/12/05

##### Scientific title

comparison of the effect of dental brush and waterjet on dental plaque

##### Public title

effect of dental brush and waterjet on dental plaque

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

**Inclusion criteria:**

candidate must have dental plaque

**Exclusion criteria:**

if any of candidates do not have dental plaque if any of candidates less than age of 18 years old if any of candidates have a missing tooth

**Age**

From **18 years** old

**Gender**

Both

**Phase**

4

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **40**

Actual sample size reached: **40**

**Randomization (investigator's opinion)**

Not randomized

**Randomization description****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 azad tehran university

**Street address**

no 4, nayestane 10th ave, pasdaran ave, tehran

**City**

tehran

**Province**

Tehran

**Postal code**

1946853314

**Approval date**

2019-05-11, 1398/02/21

**Ethics committee reference number**

IR.IAU.DENTAL.REC.1398.003

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

dental plaque

**ICD-10 code**

K05.1

**ICD-10 code description**

Chronic gingivitis

**Primary outcomes****1****Description**

level of dental plaque

**Timepoint**

primary plaque index will be calculated at the day of start of study, after using dental brush and waterjet once again the secondary dental plaque will be calculated, there is no more time fragments

**Method of measurement**

dental plaque disclosing tablet

**Secondary outcomes**

empty

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

Intervention group: any side of the jaw that waterjet has been used, the intervention is the waterjet itself.

**Category**

Treatment - Devices

**2****Description**

Control group: any side of the jaw that toothbrush has been used, the intervention for this group is dental brush.

**Category**

Treatment - Devices

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Islamic Azad University, Tehran Dental Branch

**Full name of responsible person**

dr omid moghaddas

**Street address**

no 4, nayestan 10th, pasdaran ave

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**Phone**

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**Email**

dentaliau@ac.ir

**Web page address**

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

dental comittee

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dentaliau@ac.ir

**Web page address**

<http://www.dentaliau.ac.ir/>

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

No

**Title of funding source**

peridontics clinics

**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**

Islamic Azad University

**Full name of responsible person**

dr. omid moghaddas

**Position**

periodontist

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

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1

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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

dr. omid moghaddas

**Position**

peridontist

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

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## Person responsible for updating data

#### Contact

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

ardeshir amirhosseini

**Position**

dentist

**Latest degree**

Medical doctor

**Other areas of specialty/work**

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**Email**

ardi.77@live.com

## Sharing plan

### **Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

### **Justification/reason for indecision/not sharing IPD**

-

### **Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

### **Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to

make this available

### **Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

### **Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

### **Analytic Code**

No - There is not a plan to make this available

### **Data Dictionary**

No - There is not a plan to make this available