

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

16 Sep 2026

### In vivo evaluation the effect of hydrogen peroxide white strip on saliva pH on dental students

#### Protocol summary

##### Summary

The purpose of this in vivo study is evaluation the effect of whitening strips on saliva pH in dental students. This experimental invivo research carry out on 20 dental students of aged between 20-24 without any active dental caries; periodontal disease; restorative on anterior maxillary teeth. person who have history of smoking; systemic disease; special nutritional habits exclude from study. saliva pH in rest condition measure by saliva-check kit (GC, USA). Whitening strips containing hydrogen peroxide with density of %9.5(crest advanced vivid white strip, USA) apply on the surface of six anterior maxillary teeth for 14 days and each day 30 minutes according to the manufacture instruction. At first, seventh and fourteenth days of treatment, saliva pH in 10, 20, 30 minutes of starting the treatment and 30 minutes after finishing the treatment measure. changes of pH analyse by statistical analysis .

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014031717040N1**

Registration date: **2014-04-21, 1393/02/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-04-21, 1393/02/01

##### Registrant information

##### Name

Maryam Hoorizad Ganjkar

##### Name of organization / entity

Restorative Department, Tehran Dental Branch ,  
Islamic Azad University , Tehran , Iran

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 2660 1958

##### Email address

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##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Dental Faculty of Tehran  
Azad University

##### Expected recruitment start date

2012-05-30, 1391/03/10

##### Expected recruitment end date

2012-08-31, 1391/06/10

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

In vivo evaluation the effect of hydrogen peroxide white  
strip on saliva pH on dental students

##### Public title

Evaluation the effect of dental white strip on saliva pH

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion criterion: dental student aged between 20-24  
years old. Exclusion criteria: persons who have any  
active dental caries; periodontal disease; restorative on  
anterior maxillary teeth; history of smoking; systemic  
disease; special nutritional habits.

##### Age

From **20 years** old to **24 years** old

##### Gender

Both

**Phase**

2-3

**Groups that have been masked**

No information

**Sample size**

Target sample size: 20

**Randomization (investigator's opinion)**

N/A

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Single

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethic committee of Dental Faculty, Islamic Azad University , Tehran , Iran

**Street address**

Neyestan10th, Pasdaran Street, Tehran, Iran

**City**

Tehran

**Postal code****Approval date**

2012-05-27, 1391/03/07

**Ethics committee reference number**

پ/255/د

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

Saliva pH

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

Saliva pH

**Timepoint**

Before intervention, exactly after intervention, 7 and 14 days later

**Method of measurement**

pH value measured by special kit

**Secondary outcomes**

empty

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

Intervention: six maxillary anterior teeth exposed to crest advanced vivid white strips for 14 days, each day 30 minutes, based on manufacture instruction.

**Category**

Treatment - Drugs

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

Restorative Department, Tehran Dental Branch, Islamic Azad University , Tehran , Iran

**Full name of responsible person**

Maryam Hoorizad Ganjkar, Assistant Professor

**Street address**

10th Neyestan, Pasdaran Street, Dental Faculty, Restorative Department

**City**

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice chancellor for research, University of Dentistry, Islamic Azad University , Tehran

**Full name of responsible person**

Dr.Arash Azizi, Vice chancellor for research

**Street address**

10th Neyestan, Pasdaran Street, Dental Faculty, Research deputy

**City**

Tehran

**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, University of Dentistry, Islamic Azad University , Tehran

**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**  
Tehran Dental Branch, Islamic Azad University,  
Tehran, Iran  
**Full name of responsible person**  
Maryam Hoorizad Ganjkar  
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Restorative Dentistry Specialist, Assistant Professor  
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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

### Contact

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## 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*