

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)

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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 committees1**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 studied1**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 groups1**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 centers1**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 sources1**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
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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