

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jul 2026

Evaluating the effect of dental caries treatment on salivary parameters including flow rate, viscosity, PH and buffering capacity

Protocol summary

Summary

Objectives: The aim of this study was to investigate whether salivary parameters including viscosity, flow rate, pH, and buffering capacity can be affected by the elimination of the existing active dental caries. Study design: 33 subjects between the ages of 6 and 12 years with more than 5 carious tooth surfaces were included in the study. An unstimulated saliva sample was obtained from each individual and the salivary characteristics including flow rate, viscosity, pH, and buffering capacity were evaluated. One month after performing a caries treatment procedure and eliminating all the existing dental caries, saliva sampling and analysis was performed again. Inclusion criteria: children 6 to 12 years old; Caries-active having at least five decayed tooth surfaces exclusion criteria: having any systemic or local conditions affecting saliva quality and quantity; being on medications affecting the quality and quantity of saliva for the last six months; being under orthodontic therapy

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013071714032N1**

Registration date: **2013-09-15, 1392/06/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-09-15, 1392/06/24

Registrant information

Name

Zahra Razavi Rohani

Name of organization / entity

Tabriz University Of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 41 1335 5963

Email address

zahrarru@yahoo.com

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2012-09-01, 1391/06/11

Expected recruitment end date

2012-11-30, 1391/09/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the effect of dental caries treatment on salivary parameters including flow rate, viscosity, PH and buffering capacity

Public title

evaluating the effect of dental caries treatment on salivary parameters

Purpose

Supportive

Inclusion/Exclusion criteria

inclusion criteria: children 6 to 12 years old; Caries-active having at least five decayed tooth surfaces exclusion criteria: having any systemic or local conditions affecting saliva quality and quantity; being on medications affecting the quality and quantity of saliva for the last six months; being under orthodontic therapy

Age

From **6 years** old to **12 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 33

Randomization (investigator's opinion)

Not randomized

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

Single blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Tabriz University of Medical Sciences

Street address

Tabriz Dental Faculty, Golgasht St.

City

Tabriz

Postal code**Approval date**

2013-09-23, 1392/07/01

Ethics committee reference number

9261

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

dental caries

ICD-10 code

K02

ICD-10 code description

dental caries

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

salivary viscosity

Timepoint

before caries treatment

Method of measurement

Brookfield rotational viscometer

2**Description**

salivary ph

Timepoint

before caries treatment

Method of measurement

digital ph meter

3**Description**

salivary buffering capacity

Timepoint

before caries treatment

Method of measurement

ericsson method

4**Description**

salivary flow rate

Timepoint

before caries treatment

Method of measurement

unstimulated saliva flow rate for 5 minutes

Secondary outcomes

empty

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

treatment of dental caries

Category

Prevention

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

Tabriz dental faculty

Full name of responsible person

Dr. Naser Asl Aminabadi

Street address

Tabriz Dental Faculty, Golgasht St.

City

tabriz

Sponsors / Funding sources**1****Sponsor**

Name of organization / entity

Research Department Of Tabriz University

Full name of responsible person

Dr Naser Asl Aminabadi

Street address

Tabriz Dental Faculty, Golgasht St.

City

Tabriz

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Research Department Of Tabriz University

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

Department Of Pediatric Dentistry, Tabriz University of Medical Sciences

Full name of responsible person

Dr Naser Asl Aminabadi

Position

DDS, MSc, professor

Other areas of specialty/work

Street address

Tabriz Dental Faculty, Golgasht St.

City

Tabriz

Postal code

Phone

+98 41 1335 5965

Fax

Email

aslaminabadi@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr Naser Asl Aminabadi

Position

DDS, MSc, professor

Other areas of specialty/work

Street address

Tabriz Dental Faculty, Golgasht St.

City

Tabriz

Postal code

Phone

+98 41 1335 5965

Fax

Email

aslaminabadi@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr Zahra Razavi Rohani

Position

DDS, Postgraduate student

Other areas of specialty/work

Street address

Tabriz Dental Faculty

City

Tabriz

Postal code

Phone

+98 41 1335 5965

Fax

Email

zahrarru@yahoo.com

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