

# 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*