

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 Jul 2026

Comparison of clinical success of applying a fissure sealant (smart seal & loc) on the lower permanent molar teeth in dry and wet conditions.

Protocol summary

Summary

The aim of this study is to compare clinical success of applying a fissure sealant (smart seal & loc) on the lower permanent molar teeth in dry and wet conditions. In this study, 31 children, aged 6-12 years old, who have one first or second fully erupted permanent molar in each side of mandible will be recruited. These teeth must have the indication of fissure sealant therapy. One side will be treated with conventional method and the other side will be treated with new method (sealant therapy with a hydrophilic fissure sealant in wet condition). Clinical success on permanent molars will be compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904124293N1**

Registration date: **2010-12-12, 1389/09/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-12-12, 1389/09/21

Registrant information

Name

Saied Baghi

Name of organization / entity

Shiraz Dental School

Country

Iran (Islamic Republic of)

Phone

+98 71 1626 3192

Email address

baghis@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellery of Research Affairs, Shiraz University of Medical Sciences and Health Services

Expected recruitment start date

2009-09-23, 1388/07/01

Expected recruitment end date

2010-04-21, 1389/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of clinical success of applying a fissure sealant (smart seal & loc) on the lower permanent molar teeth in dry and wet conditions.

Public title

Comparison of clinical success of applying a fissure sealant (smart seal & loc) on the lower permanent molar teeth in dry and wet conditions.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age 6-12, having one first or second erupted molar in each side of lower jaw, having complicated fissures, no any sign of caries, being at low risk of dental caries, the parent have cooperation for recall visits

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: **31**

Randomization (investigator's opinion)

N/A

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

Shiraz University of Medical Sciences and Health Services

Street address

Head office of Shiraz University of Medical Sciences and Health Services, Zand street

City

Shiraz

Postal code

Approval date

2010-06-23, 1389/04/02

Ethics committee reference number

CT-89-5113

Health conditions studied

1

Description of health condition studied

prevention of dental caries

ICD-10 code

K02.9

ICD-10 code description

Dental caries, unspecified

Primary outcomes

1

Description

Clinical success

Timepoint

Before intervention, 6 and 12 months after intervention

Method of measurement

Feigal standard form-by two idipendent observer

Secondary outcomes

1

Description

Dental caries

Timepoint

6 and 12 months after intervention

Method of measurement

Feigal standard form-by two independent observer

Intervention groups

1

Description

Fissure sealant therapy by a hydrophil fissure sealant with conventional method

Category

Prevention

2

Description

Fissure sealant therapy by a hydrophil fissure sealant with new method (in wet condition)

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Pedodontics department, Shiraz Dental School

Full name of responsible person

Dr. Saied Baghi

Street address

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellery of Research Affairs Shiraz University of Medical Sciences and Health Services

Full name of responsible person

Dr. Dabagh manesh

Street address

Head office of Shiraz University of Medical Sciences and Health Services, Zand st.

City

Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice-chancellery of Research Affairs Shiraz University of
Medical Sciences and Health Services

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

Pedodontics department, Shiraz dental school

Full name of responsible person

Dr. Saied Baghi

Position

Resident

Other areas of specialty/work

Street address

Shiraz Dental School, Ghasr dasht st.

City

Shiraz

Postal code

Phone

+98 71 1626 3193

Fax

Email

baghis@sums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Pedodontics department, Shiraz Dental School

Full name of responsible person

Dr. Tahere Eskandarian

Position

Assistant professor/ Pedodontist

Other areas of specialty/work

Street address

Shiraz Dental School, Ghasr dasht st.

City

Shiraz

Postal code

Phone

+98 71 1627 3193

Fax

Email

teskandary@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Full name of responsible person

Dr. Saied Baghi

Position

Other areas of specialty/work

Street address

City

Postal code

Phone

Fax

Email

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