Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Comparison the effect of persica and chlorhexidine mouthwash in reducing salivary and plaque streptococcus mutans in primary school children.

Protocol summary

Summary
In this study we aimed to compare persica herbal mouthwash effects in reduction of streptococcus mutans in saliva and in plaque of primary school children with chlorhexidine.This randomized clinical trial was done on 50 primary school (6 to 12 years) children who were living in Fayyaz bashkh Mashhad child care center, Hashemi nezhad center, Fereshtegan center and Shahid Beheshti center who have moderate and weak oral hygiene but high caries risk and did not use of mouthwash and antibiotic in 3 weeks ago .children randomly assigned to one of the persica or chlorhexidine groups.at baseline samples from saliva and plaque were collected. After one week use of mouthwashes the samples were repeated. The streptococcus mutans count in saliva and plaque as well as saliva PH and plaque index were recorded in both times.

General information

Acronym
IRCT registration information
IRCT registration number: **IRCT2017030532881N1**
Registration date: **2017-06-15, 1396/03/25**
Registration timing: **retrospective**

Last update:
Update count: **0**
Registration date
2017-06-15, 1396/03/25

Registrant information
Name
Zahra Mohammadzadeh
Name of organization / entity
Mashhad dental school
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Iran (Islamic Republic of)
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Recruitment status
Recruitment complete
Funding source
Mashhad University of Medical Sciences

Expected recruitment start date
2016-09-22, 1395/07/01
Expected recruitment end date
2016-11-21, 1395/09/01
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparison the effect of persica and chlorhexidine mouthwash in reducing salivary and plaque streptococcus mutans in primary school children.

Public title
Comparison the effect of persica and chlorhexidine mouthwash.
Purpose
Prevention
Inclusion/Exclusion criteria
inclusion criteria: primary school children with high caries risk ; without use of antibiotic and mouthwash in 3 weeks ago. exclusion criteria: use of antibiotic and mouthwash ; lack of cooperation
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: **50**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
ethics committee of mashhad university of medical sciences
Street address
Mashhad univer sity of medical sciences,Daneshgah St. – Mashhad – Iran
City
Mashhad
Postal code
91735
Approval date
2016-06-29, 1395/04/09
Ethics committee reference number
IR.mums.sd.REC.1395.139

Health conditions studied

1

Description of health condition studied
dental caries
ICD-10 code
k02.9
ICD-10 code description
Dental caries, unspecified

Primary outcomes

1

Description
streptococcus mutans counts in dental plaque
Timepoint
at baseline and after 1 week ude of mouthwash
Method of measurement
microbial culture

2

Description
streptococcus mutans counts in saliva
Timepoint
at baseline and after 1 week ude of mouthwash
Method of measurement
bacterial cilture

3

Description
dental plaque
Timepoint
at baseline and after 1 week ude of mouthwash
Method of measurement
Loe&Sillness scale

4

Description
saliva ph
Timepoint
at base line and after 1 week use of mouthwash
Method of measurement
ph meter

Secondary outcomes

empty

Intervention groups

1

Description
in intervention group Persica mouthwash was prescribed for 25 children who have weak and moderate oral hygiene but high caries risk .mouthwash was diluted by pharmacist before prescription ,according to factory instruction .this means that one drop of Persica in one cc water and the children were asked to rinse twice a day with 15 mlit for 60 seconds. at baseline samples from saliva and plaque were collected. After one week use of mouthwashes the samples were repeated. The streptococcus mutans counts in saliva and plaque as well as saliva PH and plaque index were recorded in both times.
Category
Prevention

2

Description
in control group 0.12% Chlorhexidine mouthwash was prescribed for 25 children who have weak and moderate oral hygiene but high caries risk and the children were asked to rinse once a day with 15 mlit for 60 seconds.at baseline samples from saliva and plaque were collected.

After one week use of mouthwashes the samples were repeated. The streptococcus mutans counts in saliva and plaque as well as saliva PH and plaque index were recorded in both times.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

fereshtegan house

Full name of responsible person

MS Ramezan zade

Street address

City

Mashhad

2

Recruitment center

Name of recruitment center

fayyaz bakhsh home

Full name of responsible person

Ms Molayi

Street address

City

Mashhad

3

Recruitment center

Name of recruitment center

shahid beheshti center

Full name of responsible person

Mr Hashemi

Street address

City

Mashhad

4

Recruitment center

Name of recruitment center

Hashemi nezhad center

Full name of responsible person

Ms Ghorbani

Street address

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Research chancellor of Dental School of Mashhad University of Medical Sciences , Malihe Razm Avar

Street address

Mashhad University of Medical Sciences, Vakil Abad Bolvard, Mashhad, Iran

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad University of Medical Sciences

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

Faculty of dentistry , Mashhad University of Medical Sciences

Full name of responsible person

Zahra Mohammadzadeh

Position

assisstant professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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pedodontist

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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