

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jul 2026

Comparing the efficacy of chlorhexidine 0.2% and povidone-iodine 10% on preoperative skin preparation before intraoral surgeries

Protocol summary

Study aim

Comparing the efficacy of Chlorhexidine 0.2% and Povidone-Iodine 10% on preoperative skin preparation before intraoral surgeries

Design

Not-blinded clinical trial with control group

Settings and conduct

In this study, the skin around the mouth is divided into two left and right part from the nose to the chin, firstly. Some samples are taken individually from the right and left. Then we apply Chlorhexidine 0.2% to the left side and Povidone- Iodine 10% to the right side. We immediately take some samples from the left side; but do it after three minutes for the right side. The samples will be taken by sterile swab and placed in a test tube containing TSB(Tryptic soy broth). Cultivation is carried out in the blood agar environment by swab. After 24 hours of incubation, the grown colonies will be counted and the results will be compared. The site of study is the Periodontology Department of Ahvaz Jundishapur Dentistry Faculty and the Microbiology Department of Jundishapur Medical Faculty.

Participants/Inclusion and exclusion criteria

Male healthy non smoker patients

Intervention groups

The samples are taken before any intervention, as well as after using Chlorhexidine 0.2% in one side and Povidone- Iodine 10% in other side, from the left and right side of skin around the mouth, separately.

Main outcome variables

The number of bacterial colonies

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181017041365N1**

Registration date: **2019-05-04, 1398/02/14**

Registration timing: **retrospective**

Last update: **2019-05-04, 1398/02/14**

Update count: **0**

Registration date

2019-05-04, 1398/02/14

Registrant information

Name

Negin Ostadian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3333 7185

Email address

ostadian.n@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-02-20, 1397/12/01

Expected recruitment end date

2019-04-30, 1398/02/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the efficacy of chlorhexidine 0.2% and povidone-iodine 10% on preoperative skin preparation before intraoral surgeries

Public title

Comparing the efficacy of chlorhexidine 0.2% and povidone-iodine 10% on preoperative skin preparation

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Healthy persons

Exclusion criteria:

Skin disease Smokers Systemic disease

Age

From **20 years** old to **30 years** old

Gender

Male

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **57**

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 committees

1

Ethics committee

Name of ethics committee

Ethics committee of Ahvaz Jundishapur University of
Medical Science

Street address

Golestan street

City

Ahvaz

Province

Khouzestan

Postal code

6135715775

Approval date

2018-06-30, 1397/04/09

Ethics committee reference number

IR.AJUMS.REC.1397.264

Health conditions studied

1

Description of health condition studied

Preoperative skin preparation

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Number of bacterial colonies before and after applying
Chlorhexidine 0.2% and Povidone- Iodine 10% to the
perioral skin

Timepoint

Counting bacterial colonies after 24 hours incubation

Method of measurement

Counting bacterial colonies

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: first intervention group: left side of
the skin around their mouth will be prepared with
Chlorhexidine 0.2 % mouthwash Irandaru Factory,
second intervention group: right side of the skin around
their mouth will be prepared with Povidone- Iodine 10%
Darudarman Factory

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahvaz Jundi Shapur University Of Medical Sciences
Scool Of Dental Medicine

Full name of responsible person

Dr Navid Dorestan

Street address

Jundi Shapur University Of Medical Sciences, Golestan
street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr Mohammad Badavi

Street address

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

No

Title of funding source

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact**Name of organization / entity**

Ahvaz University of Medical Sciences

Full name of responsible person

Dr Navid Dorestan

Position

Asistant Professor Of Periodontology

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for updating data

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Position

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Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

No more information

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to

make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available