Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Effect of hyaluronic acid)HA) on scaling & root planning treatment in patients with chronic periodontitis

Protocol summary

Study aim
Effect of hyaluronic acid(HA) on scaling & root planning treatment in patients with chronic periodontitis

Design
One-blind randomized controlled clinical trial, phase 3 on 24 patients. Randomization of this study is done using a table of random numbers, which is done with Random Allocation software.

Settings and conduct
In this one-blind study, 24 patients with moderate to severe chronic periodontitis who refer to the periodontology department of Shahid Sadoughi Dental School of Yazd for periodontal treatment will be randomly selected and examined.

Participants/Inclusion and exclusion criteria
Patients should be systemically healthy؛ have at least 5 teeth per maxillary quadrant؛ and have moderate to severe chronic periodontitis. No allergy to hyaluronic acid؛ They should also not be treated orthodontically and should not use mouthwash for the past 6 months.

Intervention groups
The gel is injected in one quadrant and the other quadrant is the control group.

Main outcome variables
Plaque index؛ Bleeding on probing؛ Clinical attachment loss؛ Pocket depth

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20171015036782N7**
Registration date: **2022-01-09, 1400/10/19**
Registration timing: **registered_while_recruiting**

Last update: **2022-01-09, 1400/10/19**
Update count: **0**

Registration date
2022-01-09, 1400/10/19

Registrant information

Name
farzane vaziri

Name of organization / entity
Shahid sadoughi dental university

Country
Iran (Islamic Republic of)

Phone
+98 35 3620 4764

Email address
f.vaziri@ssu.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2021-12-11, 1400/09/20

Expected recruitment end date
2022-03-21, 1401/01/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Effect of hyaluronic acid)HA) on scaling & root planning treatment in patients with chronic periodontitis

Public title
Effect of hyaluronic acid)HA) on scaling & root planning treatment in patients with chronic periodontitis

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
they have moderate to severe periodontitis they Have at

least 5 teeth in each maxilla quadrant They are not allergic to(hyaluronic acid) HA. Patients should not be treated orthodontically and should not use mouthwash for the past 6 months.

Exclusion criteria:

pregnancy smoker hypertention Chronic systemic diseases including diabetes and allergies Patients who have been receiving periodontal or antibiotic treatment for the past 6 months

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **24**

Randomization (investigator's opinion)

Randomized

Randomization description

We will define a code for each patient with moderate to severe chronic periodontitis, who have referred to the periodontal department of the dental school for periodontal treatment and are eligible to enter the study, and we will enter these codes in the Random Allocation software. . Then, using software, we randomly select 36 codes in two groups of 18 to enter the study.

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

Ethics committee of yazd University of Medical Sciences

Street address

No.2,Second Alley, East touba Ave, Amirkabir Blvd ,Yazd

City

Yazd

Province

Razavi Khorasan

Postal code

8916147860

Approval date

2021-10-26, 1400/08/04

Ethics committee reference number

IR.SSU.REC.1400.136

Health conditions studied

1

Description of health condition studied

moderate to severe chronic periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes

1

Description

Probing depth

Timepoint

Beggining of study and 6 week later

Method of measurement

Williams probe

2

Description

Clinical Attachment Loss

Timepoint

Beggining of study and 6 week later

Method of measurement

Using the Williams probe

3

Description

Bleeding on probing

Timepoint

Beggining of study and 6 week later

Method of measurement

by observation of Bleeding on probing in the mouth and measuring its percentage

4

Description

plaque index

Timepoint

Beggining of study and 6 week later

Method of measurement

observation of plaque

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: non-surgical periodontal treatment

and use 1% hyaluronic acid gel subcutaneously twice with an interval of one week in the right quadrant of the maxilla

Category

Treatment - Drugs

2

Description

Control group: non-surgical periodontal treatment in the left quadrant of the maxilla

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Milad Eidy

Street address

Shahid Sadoughi Faculty of Dentistry Yazd, Emam Reza square

City

Yazd

Province

Yazd

Postal code

8915839985

Phone

+98 35 3621 2623

Email

miladeidy1372@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Mostafa mahmoodi

Street address

Shahid Sadoughi Faculty of Dentistry Yazd, Emam Reza Square

City

Yazd

Province

Yazd

Postal code

8915839985

Phone

+98 35 3621 2623

Email

miladeidy1372@gmail.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Yazd 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

Yazd University of Medical Sciences

Full name of responsible person

Milad eidy

Position

Post graduation

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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No.2,Second Alley, East touba Ave, Amirkabir Blvd ,Yazd

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

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Person responsible for updating data

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Name of organization / entity
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Yes - There is 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
Title and more details about the data/document
The whole data is shared
When the data will become available and for how long
Six months after the publication of the article
To whom data/document is available
Researchers working in academic institutions
Under which criteria data/document could be used
Email, Call
From where data/document is obtainable
milad eidy.09919635479, miladeidy1372@gmail.com
What processes are involved for a request to access data/document
After sending the Email, the data will be transmitted
Comments