

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation effect of mucoadhesive nigella sativa in the treatment of chronic periodontitis

Protocol summary

Summary

The purpose of this study is to compare the effectiveness of muco-adhesive Nigella Sativa extract with muco-adhesive Thymoquinone as an adjunctive topical treatment medicine following scaling and root planning (SRP), and to compare them with the outcomes of treating chronic periodontitis by performing SRP only. This is a randomized, triple-blind, placebo controlled study. Samples are chosen from patients suffering from chronic periodontitis who referred to Kermanshah Faculty of Dentistry. Inclusion criteria: patient free from systemic illness; patient who had not taken periodontal therapy in the past 3 month Exclusion criteria: dissatisfaction and inability to comply with the follow-up visit requirements; history of systemic illness; received antioxidants like vitamin C and E or β -Carotene; pregnant. In each patient after scaling and root planing, muco-adhesive Nigella Sativa gel is injected in one site, muco-adhesive Thymoquinone gel is injected in another site and on the third site placebo is injected. Clinical parameters to be considered including plaque index, gingival index, pocket depth, clinical attachment loss, and bleeding index are evaluated pre-treatment and in 8, 15, 30, and 90 days post-treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016021826637N1**

Registration date: **2017-02-15, 1395/11/27**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-15, 1395/11/27

Registrant information

Name

Seyed Mohamad Saleh Yassini

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 83 3845 2545

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kermanshah University of Medical Sciences

Expected recruitment start date

2016-07-22, 1395/05/01

Expected recruitment end date

2016-08-10, 1395/05/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation effect of mucoadhesive nigella sativa in the treatment of chronic periodontitis

Public title

Effect of nigella sativa in the treatment of chronic periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient free from systemic illness; patient who had not taken periodontal therapy in the past 3 month Exclusion criteria: dissatisfaction and

inability to comply with the follow-up visit requirements; history of systemic illness; received antioxidants like vitamin C and E or β -Carotene; pregnant

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 20

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah University of Medical Sciences

Street address

Kermanshah University of Medical Sciences, Shahid Beheshti blvd, Kermanshah

City

Kermanshah

Postal code

Approval date

2016-06-08, 1395/03/19

Ethics committee reference number

KUMS.REC.1395.176

Health conditions studied

1

Description of health condition studied

Chronic periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes

1

Description

probing pocket depth

Timepoint

Baseline, one week, two weeks, one and three months after the intervention

Method of measurement

Williams Periodontal Probe

2

Description

Clinical attachment loss

Timepoint

Baseline, one week, two weeks, one and three months after the intervention

Method of measurement

Williams Periodontal Probe

3

Description

plaque index

Timepoint

Baseline, one week, two weeks, one and three months after the intervention

Method of measurement

plaque index Silness & Loe

4

Description

Gingival Index

Timepoint

Baseline, one week, two weeks, one and three months after the intervention

Method of measurement

Observed

5

Description

Bleeding Index

Timepoint

Baseline, one week, two weeks, one and three months after the intervention

Method of measurement

Observed\Bleeding Index Muhlemann

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:SRP with Mucoadhesive Locally Delivery Nigella Sativa extract 0.2%

Category

Treatment - Drugs

2

Description

Intervention group:SRP with Mucoadhesive Locally
Delivery Thymoquinone 0.02%

Category

Treatment - Drugs

3

Description

Control group:SRP with placebo

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Department of Periodontology, Kermanshah faculty of
dentistry

Full name of responsible person

Street address

City

kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ethics committee of Kermanshah University of
Medical Sciences

Full name of responsible person

Kurosh Hamzehee

Street address

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Sceinces, Shahidbeheshti Blvd, Kermanshah

City

Kermanshah

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ethics committee of Kermanshah 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

Kermanshah Dentistry School

Full name of responsible person

Seyed Mohamad Saleh Yassini

Position

Dental student

Other areas of specialty/work

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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