

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 2026

Clinical Effectiveness of photodynamic Therapy as an Adjunct to Nonsurgical Periodontal Treatment

Protocol summary

Summary

The present study compared the clinical and micro biologic effectiveness of the photodynamic therapy as an adjunctive treatment modality for the nonsurgical treatment in the chronic periodontitis. Patients with moderate to advanced periodontitis and at least 2 teeth with PD between 4-10mm with BOP in each quadrant are included and patients with history of systemic disease such as metabolic and endocrinal diseases are excluded. Patients are recruited from people refer to periodontics department of Shahid Beheshti University Of Medical Science. Using sample size estimation software 18 sample was attained. Each patient will receive different treatment modalities in each quadrant. Randomization was done by toss of coin for quadrants and treatment modalities. based on randomization first quadrant receive SRP (control), second modality is laser curettage with Diode laser (810nm and 1.5W) after SRP, third modality is photodynamic therapy (0.2W) after SRP and forth modality is pocket decontamination (1W) and SRP after 48h. periodontal parameters before, 1month and 3 months after treatment will measure and register .measurements will done by a calibrated probe in 6 site around each tooth. These parameters are; Probing Depth, Clinical Attachment Level and Bleeding On Probing. Microbiologic assessments will done base on samples from baseline, 1month and 3 months after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015022221180N1**

Registration date: **2015-04-10, 1394/01/21**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-04-10, 1394/01/21

Registrant information

Name

Rojin Taliee

Name of organization / entity

Shahid Beheshti University of Medical Sciences Dental School

Country

Iran (Islamic Republic of)

Phone

+98 21 2240 3010

Email address

rojintaliee@sbm.ac.ir

Recruitment status

Recruitment complete

Funding source

Science Research center Of Shahid Beheshti University of Medical SciencesDental School

Expected recruitment start date

2013-12-25, 1392/10/04

Expected recruitment end date

2014-03-11, 1392/12/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Effectiveness of photodynamic Therapy as an Adjunct to Nonsurgical Periodontal Treatment

Public title

Clinical Effectiveness of photodynamic Therapy as an Adjunct to Nonsurgical Periodontal Treatment

Purpose

Treatment

Inclusion/Exclusion criteria
 Inclusion criteria: moderate to advanced chronic periodontitis Generalized; at least 2 teeth in each quadrant with pocket depth 4-10mm with BOP; at least 5 teeth in each quadrant
 Exclusion criteria: history of systemic disease; pregnancy and breast feeding; high dose steroid therapy; history of radiotherapy; smoking; orthodontic treatment; antibiotic therapy in 6 months ago; mobility type 3; periodontal treatment in 6 months ago

Age
 No age limit

Gender
 Both

Phase
 N/A

Groups that have been masked
 No information

Sample size
 Target sample size: 18

Randomization (investigator's opinion)
 Randomized

Randomization description

Blinding (investigator's opinion)
 Single blinded

Blinding description

Placebo
 Not used

Assignment
 Parallel

Other design features
 Randomization was done by toss of coin

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee Science Research Center Shahid Beheshti University of Medical Sciences

Street address

Daneshjoo Blvd, Velenjak, Tehran

City

Tehran

Postal code

Approval date

2014-03-02, 1392/12/11

Ethics committee reference number

20

Health conditions studied

1

Description of health condition studied

moderate to advanced chronic periodontitis

ICD-10 code

K05.3

ICD-10 code description

Chronic periodontitis

Primary outcomes

1

Description

pocket depth and clinical attachment level

Timepoint

before, 1 and 3 months after treatment

Method of measurement

with calibrated Williams probe

Secondary outcomes

1

Description

bleeding on probing

Timepoint

before, 1 month and 3 months after treatment

Method of measurement

with calibrated probe, subjective: yes or no

Intervention groups

1

Description

"control group": scaling and root planning

Category

Treatment - Other

2

Description

"intervention groups": photodynamic therapy and scaling

Category

Treatment - Other

3

Description

"intervention groups": laser curettage and scaling

Category

Treatment - Other

4

Description

"intervention groups": first laser then scaling

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Patients Refer to Shahid Beheshti University of
Medical Sciences Dental School

Full name of responsible person

Dr Rojin Taliee

Street address

Daneshju blvd, Velenjak, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Dental Research Center, Research Institute of Dental
Science, Shahid Beheshti University of Medical Sci

Full name of responsible person

Dr Rojin Taliee

Street address

Daneshju blvd, Velenjak, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Dental Research Center, Research Institute of Dental
Science, Shahid Beheshti University of Medical Sci

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

Shahid Beheshti University of Medical Sciences Dental
School

Full name of responsible person

Dr Rojin Taliee

Position

Doctor

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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School

Full name of responsible person

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Position

periodontist

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Position

Doctor

Other areas of specialty/work

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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