

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

clinical and antibacterial effect of photodynamic therapy and diod laser as adjunctive periodontal therapy in chronic periodontitis

Protocol summary

Summary

aim: comparison between clinical and antibacterial effect of photodynamic therapy and diod laser as adjunctive periodontal therapy in chronic periodontitis study design: randomized, single blind, no placebo, multi-center, population: patients aged 30-60 years old that have generalized chronic moderate to severe periodontitis. inclusion criteria: without particular systemic disease, plaque index < %40 exclusion criteria: patients that received broadcast systemic antibiotics during 6 month ago, patients that received periodontal treatment during one year ago sample size: 15 quadrant in each group intervention studied: treatment with diod laser, photodynamic therapy interventional time: initial, 2 week, 6 week

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014040617143N1**

Registration date: **2014-06-17, 1393/03/27**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-06-17, 1393/03/27

Registrant information

Name

Ehsan Rafiei

Name of organization / entity

Islamic Azad Dental School Khorasgan Branch,
(Isfahan), Iran

Country

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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2013-04-09, 1392/01/20

Expected recruitment end date

2014-04-09, 1393/01/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

clinical and antibacterial effect of photodynamic therapy and diod laser as adjunctive periodontal therapy in chronic periodontitis

Public title

clinical and antibacterial effect of photodynamic therapy and diod laser as adjunctive periodontal therapy in chronic periodontitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient with generalized chronic moderate to severe periodontitis that have at least four sites with 4-6 mm pocket depth in per quadrant; patients aged 30-60 years old. Exclusion criteria: patient with particular systemic diseases; patients under treatment with special medication; smokers and patients consume alcohol; patients that received systemic antibiotics during 6 month ago

Age

From **30 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked*No information***Sample size**Target sample size: **90****Randomization (investigator's opinion)**

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**Islamic Azad Dental School Khorasgan Branch,
(Isfahan), Iran**Street address**Islamic Azad University Khorasgan (Isfahan) Branch,
University Boulevard, Arghavanieh, Eastern Jay Street**City**

Isfahan

Postal code**Approval date**

2013-04-20, 1392/01/31

Ethics committee reference number

23810201912011

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**

Aggregatibacter actinomycetemcomitans

Timepoint

initial, 2 week, 6 week

Method of measurement

colonies

2**Description**

Prevotella intermedia

Timepoint

initial, 2 week, 6 week

Method of measurement

colonies

3**Description**

porphyromonas gingivalis

Timepoint

initial, 2 week, 6 week

Method of measurement

colonies

4**Description**

pocket depth

Timepoint

initial, 2 week, 6 week

Method of measurement

clinical measurement (mm)

5**Description**

bleeding on probing

Timepoint

initial, 2 week, 6 week

Method of measurement

clinical evaluation (+/-)

6**Description**

clinical attachment loss

Timepoint

initial, 2 week, 6 week

Method of measurement

clinical measurement (mm)

Secondary outcomes

empty

Intervention groups**1****Description**

laser therapy

Category

Treatment - Other

2

Description

photodynamic therapy

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

dept of periodontics, Islamic Azad Dental School
Khorasgan Branch, (Isfahan), Iran

Full name of responsible person

ehsan rafiei

Street address

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University of Isfahan (Khorasgan), Dental
School

Full name of responsible person

Ehsan Rafiei

Street address

Dental School, Islamic Azad University of Isfahan
(Khorasgan), Jey Street

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Islamic Azad University of Isfahan (Khorasgan), Dental
School

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

Islamic Azad University of Isfahan(Khorasgan), Dental
School

Full name of responsible person

Ehsan Rafiei

Position

postgraduated student of periodontics

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