

# 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

Iran (Islamic Republic of)

###### Phone

+98 31 1535 4066

###### Email address

e.rafeei@khuisf.ac.ir

###### 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

#### Street address

Dental School, Islamic Azad University of Isfahan  
(Khorasgan), Jay Stree

#### City

Isfahan

#### Postal code

#### Phone

+98 31 1535 4066

#### Fax

#### Email

dr\_ehsan60@yahoo.com, e.rafiee@khuisf.ac.ir

#### Web page address

## Person responsible for scientific 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

#### Street address

Islamic Azad University of Isfahan (Khorasgan), Jey  
Street

#### City

Isfahan

#### Postal code

#### Phone

+98 31 1535 4066

#### Fax

#### Email

dr\_ehsan60@yahoo.com, E.rafiee@khuisf.ac.ir

#### Web page address

## Person responsible for updating data

### 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

#### Street address

Islamic Azad University of Isfahan (Khorasgan), Jay  
Street

#### City

Isfahan

#### Postal code

#### Phone

+98 31 1535 4066

**Fax**  
**Email**  
**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*