

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Jul 2026

Effect of photodynamic therapy and diod laser as adjunctive periodontal therapy on inflammatory mediators levels in gingival cervicular fluid and clinical periodontal status

Protocol summary

Summary

Aim: Comparison between photodynamic therapy and diod laser as adjunctive periodontal therapy on inflammatory mediators levels in gingival crevicular and clinical periodontal status 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: **IRCT2014040617145N1**
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

faraz teymouri

Name of organization / entity

Islamic Azad University of Isfahan (Khorasgan), Dental School

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

Effect of photodynamic therapy and diod laser as adjunctive periodontal therapy on inflammatory mediators levels in gingival cervicular fluid and clinical periodontal status

Public title

Effect of photodynamic therapy and diod laser as adjunctive periodontal therapy on inflammatory mediators levels in gingival cervicular fluid and clinical periodontal status

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 yeas 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: **45**

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

Dental School, Islamic Azad University of Isfahan(Khorasgan)

Street address

Islamic Azad University of Isfahan(Khorasgan), Jey Street

City

Isfahan

Postal code

Approval date

2012-09-22, 1391/07/01

Ethics committee reference number

92013110603

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

Interluekin 1b

Timepoint

Initial, 2 week, 6 week

Method of measurement

Perticular kit of elisa

2

Description

Interluekin 17

Timepoint

Initial, 2 week, 6 week

Method of measurement

Perticular kit of elisa

3

Description

Pocket Depth

Timepoint

Initial, 2 week, 6 week

Method of measurement

Clinical measurment (mm)

4

Description

Bleedin on Probing

Timepoint

Initial, 2 week, 6 week

Method of measurement

Clinical evaluation (+/-)

5

Description

clinical attachment loss

Timepoint

initial, 2 week, 6 week

Method of measurement

clinical measurment (mm)

Secondary outcomes

empty

Intervention groups

1

Description

Laser therapy

Category

Treatment - Other

2

Description

Photodynamic Therapy
Category
Treatment - Other

3

Description
Control (Phase I periodontal treatment)
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
Street address
City
Isfahan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Dental School, Islamic Azad University of Isfahan
(Khorasgan)
Full name of responsible person
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Isfahan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Dental School, Islamic Azad University of Isfahan
(Khorasgan)
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
Dental School, Islamic Azad University of
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Person responsible for updating data

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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