Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 mount 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
Faraz Teymouri
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Dental School, Islamic Azad University of Isfahan (Khorasgan), Jey Street
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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 Isfahan(Khorasgan)
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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