Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of antimicrobial photodynamic therapy as an adjunct to non-surgical treatment of deep periodontal pockets

Protocol summary

Summary

Present study was conducted at the Department of Periodontics, Maulana Azad Institute of Dental Sciences, with the aim to evaluate the adjunctive role of antimicrobial photodynamic therapy in non-surgical treatment of deep periodontal pockets. 30 patients with chronic periodontitis, who met the criteria of having periodontal pockets with probing depth ≥6 mm with bleeding on probing in at least two different quadrants were included in the study. After oral hygiene instructions, each patient was subjected to scaling with ultrasonic and hand scalers. All the sites with probing depth >3 mm were subjected to root planing. One quadrant was selected for PDT, while other served as control. Clinical parameters i.e. Plaque Index (PI), modified Sulcular Bleeding Index (mSBI), Probing Depth (PD) and Clinical Attachment Level (CAL) were measured at baseline, 1 month and 3 months post-treatment interval.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016090329668N1**
Registration date: **2016-09-13, 1395/06/23**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-09-13, 1395/06/23

Registrant information

Name

Abdul Ahad

Name of organization / entity

Dr Ziauddin Ahmad Dental College and Hospital

Country

India

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+918439180687

Email address

aahad.amu@gmail.com

Recruitment status

Recruitment complete

Funding source

Supported by the Institute itself (Maulana Azad Institute of Dental Sciences), New Delhi, INDIA

Expected recruitment start date

2012-12-10, 1391/09/20

Expected recruitment end date

2014-02-03, 1392/11/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of antimicrobial photodynamic therapy as an adjunct to non-surgical treatment of deep periodontal pockets

Public title

Antimicrobial laser treatment along with routine teeth cleaning for management of deep gum pockets

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Presence of at least 2 teeth in different quadrants with probing depth ≥6 mm, and bleeding on probing. Exclusion Criteria: 1) Systemic conditions which could influence the outcome of study, like uncontrolled diabetes mellitus. 2) Pregnant or lactating women. 3) Any history of smoking or smokeless tobacco use. 4) History of antibiotic use in last 3 months. 5) Undergoing

regular treatment with immunosuppressants, non-steroidal anti-inflammatory drugs, steroids, anticonvulsants, anticoagulants or calcium channel blockers. 6) Presence of carious lesion or restoration on the root surface.

Age
From **18 years** old to **50 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Patient Recruitment Completed. Other Design Features mentioned in Summary section.

Secondary Ids

1

Registry name
Clinical Trial Registry - India

Secondary trial Id
REF/2015/04/008725 (Reference Number)

Registration date
2015-04-02, 1394/01/13

Ethics committees

1

Ethics committee

Name of ethics committee
Maulana Azad Institute of Dental Sciences

Street address
Bahadur Shah Zafar Marg

City
New Delhi

Postal code
110002

Approval date
2012-09-27, 1391/07/06

Ethics committee reference number
NA

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
Probing Depth

Timepoint
Baseline, 1 month, 3 months

Method of measurement
Periodontal Probing using UNC-15 probe

Secondary outcomes

1

Description
modified Sulcular Bleeding Index

Timepoint
Baseline, 1 month, 3 months

Method of measurement
Periodontal Probing

Intervention groups

1

Description
Intervention: Scaling and Root Planing followed by antimicrobial Photodynamic Therapy

Category
Treatment - Other

2

Description
Control: Scaling and Root Planing only

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Maulana Azad Institute of Dental Sciences

Full name of responsible person
Prof. Arundeep Kaur Lamba

Street address
Department of Periodontics, Maulana Azad Institute of Dental Sciences

City
New Delhi

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Maulana Azad Institute of Dental Sciences
Full name of responsible person
Prof. Arundeep Kaur Lamba
Street address
Department of Periodontics, Maulana Azad Institute of Dental Sciences
City
New Delhi
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Maulana Azad Institute of Dental Sciences
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
Dr. Ziauddin Ahmad Dental College, Faculty of Medicine
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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