

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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

Phone

+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. Arundeeep 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. Arundeeep 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

Full name of responsible person

Dr. Abdul Ahad

Position

Senior Resident

Other areas of specialty/work**Street address**

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Person responsible for scientific

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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