Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Clinical Evaluation Of Keratinized Gingiva After Implant Exposure Using Diode Laser And Punch Technique

Protocol summary

Summary

Objectives: Clinical evaluation and comparison of keratinized gingiva around implants following second stage of implant surgery by diode laser and punch technique by scalpel Design: Randomized controlled clinical trial on 40 patients receiving implant treatment at Kerman Dental School, twenty patients in punch by scalpel group and 20 patients in diode laser group, single blind (outcome evaluator) , simple randomization by coin tossing Setting and conduct: measuring the keratinized gingival height at surgery time, and then weekly for four weeks post surgery Inclusion criteria: Patients candidate for second stage of implant surgery through punch technique Exclusion criteria: Patient's incompliance Intervention: Performing punch technique by scalpel or application of diode laser for implant exposure at second stage of implant surgery Time of intervention: 2-4 months after implant placement Primary outcome: Dimensions of keratinized gingiva Secondary outcome: Pain

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201409175305N4**
Registration date: **2017-06-14, 1396/03/24**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-06-14, 1396/03/24

Registrant information

Name

Mohammad Mohammadi

Name of organization / entity

Kerman Dental School

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Kerman Dental and Oral Research Center; Vice chancellor for research, Kerman University of Medical Sciences

Expected recruitment start date

2017-01-20, 1395/11/01

Expected recruitment end date

2017-04-19, 1396/01/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Evaluation Of Keratinized Gingiva After Implant Exposure Using Diode Laser And Punch Technique

Public title

Evaluation of Gingival Dimension After Two Different Techniques for Second Stage of Implant Surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Presence of sufficient keratinized gingiva, as at least 9mm of keratinized tissue would be available; Absence of bone loss assessed through periapical radiography prior to the second stage of implant surgery; Patient cosent Exclusion criteria: Patient's incompliance

Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **40**
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
Ethics Committee of Kerman University of Medical Sciences
Street address
Research Center, Somayye crossroad, Shariati st.
City
Kerman
Postal code
Approval date
2015-10-31, 1394/08/09
Ethics committee reference number
IR.KMU.REC.1394.288

Health conditions studied

1

Description of health condition studied
Gingival recession
ICD-10 code
K06.0
ICD-10 code description
Gingival recession (generalized)(localized)(postinfective)(post-operative)

Primary outcomes

1

Description
keratinized gingiva dimension
Timepoint
At surgery time, and then weekly for four weeks post surgery
Method of measurement
By periodontal probe

Secondary outcomes

1

Description
Pain
Timepoint
One week after surgery
Method of measurement
Visual analogue scale (VAS)

Intervention groups

1

Description
intervention group: implant exposure by diode laser
Category
Treatment - Surgery

2

Description
Control group: implant exposure through punching by scalpel
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Periodontics Dept.,kerman Dental School
Full name of responsible person
Dr. Mohammad Mohammadi
Street address
City
Kerman

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research, Kerman University of Medical Science
Full name of responsible person
Dr. Shahravan
Street address
Somayye crossroad, Shariati st.
City

kerman

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice Chancellor for Research, Kerman University of Medical Science

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

Periodontics Department, Kerman Dental School

Full name of responsible person

Dr. Mohammad Mohammadi

Position

Assistant professor of Periodontology

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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