

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 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 in compliance 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 in compliance

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

Other areas of specialty/work

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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