Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Clinical evaluation of gingival condition around the implants in one implant retained mandibular overdentures and two implant retained mandibular overdentures with immediate loading in anterior mandible.

Protocol summary

Summary

Since the retention of mandibular dentures are less than maxillary dentures, use of conventional mandibular dentures is not satisfying. Introduction of dental implants improves quality of life of edentulous patients. Many patients could not pay much money to have two implants because they are expensive. Twenty patients with mandibular dentures whose dentures were not stable in the mouth and referred to prosthetic department of dentistry college of Hamedan medical university that were volunteer to receive implant were selected. All patients should be edentolous for at least twelve months and their dentures should not need relying. A stent duplicate from patients dentures and implant positions determined on the CBCT basis. Then patients divided into two groups randomly. Single implant group(interventional group): who receive one implant in C region of mandible Two implant group (control group): who receive two implant in B and D regions of mandible Then the soft tissue conditions around implants in both groups will be compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201010265030N1**
Registration date: **2011-03-02, 1389/12/11**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2011-03-02, 1389/12/11

Registrant information

Name

Parviz Torkzaban

Name of organization / entity

Hamedan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research ,Hamedan University of Medical Sciences

Expected recruitment start date

2010-11-22, 1389/09/01

Expected recruitment end date

2011-02-20, 1389/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical evaluation of gingival condition around the implants in one implant retained mandibular overdentures and two implant retained mandibular overdentures with immediate loading in anterior mandible.

Public title

Evaluation of gingival condition around the implants

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion :edentulous patients Exclusion: uncontrolled

systemic disease

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics commitee of Hamedan medical university

Street address

Hamedan medical university.Pazhouhesh high way. Hamedan.

City

Hamedan

Postal code

Approval date

2010-09-13, 1389/06/22

Ethics committee reference number

89465/9/35/16/پ

Health conditions studied

1

Description of health condition studied

Gingival recession

ICD-10 code

K08.2

ICD-10 code description

Atrophy of edentulous alveolar ridge

Primary outcomes

1

Description

Probe depth of the gingiva

Timepoint

1,3,6 Monthes after surgery

Method of measurement

With periodontal probe

Secondary outcomes

empty

Intervention groups

1

Description

Reduce numbers of implants to one in interventional group (single implant group)

Category

Treatment - Surgery

2

Description

control group: two implant group Intervention is reduce the number of implants to one.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Periodontics department, dental faculty, Hamedan University of Medical Sciences

Full name of responsible person

Dr Parviz Torkzaban

Street address

Periodontics department, Dental facultyof Hamedan medical university,Pazhouhesh highway, Hamedan

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Hamedan university of medical science

Full name of responsible person

Dr Ghaleeeha

Street address

Periodontics department, Dental faculty, Hamedan university of medical

City

Hamedan

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, Hamedan 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

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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