

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

21 Jul 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 edentulous 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)

#### Phone

+98 81 1251 1724

#### Email address

torkzaban@umsha.ac.ir

#### 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 committee 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****Contact****Name of organization / entity**

Hamedan University of Medical Science

**Full name of responsible person**

Dr Parviz Torkzaban

**Position**

Assistant professor

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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