

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jul 2026

Comparison the effect of two different heights of implant collar on the marginal bone loss in patients who are candidate for immediate implantation: a randomized clinical trial

Protocol summary

Summary

Objectives: To assess the effect of two different heights of implant collar on the marginal bone loss in patients who are candidate for immediate implantation Design: A randomized clinical trial. Setting and conduct: The eligible patients who are candidate for immediate implantation who will refer to School of Dentistry during the study period will be enrolled into the trial. Inclusion criteria: Age of 18 to 65 years; indications for immediate implant placement, bone quality D2; presence of every 4 walls of the alveolar bone, presence of at least 4 mm bone beyond the apex of the root, a at least 3 mm attached gingiva width. Exclusion criteria: Systemic disease; coagulopathy disorders; acute infection around alveolar bone; heavy smoker; using alcohol or opioid; bruxism; presence of dehiscence and fenestration in the remaining bone walls. Intervention group 1: Placement of implants collar with a diameter of 4 mm and a length of 12 mm. Intervention group 2: Placement of implants collar with a diameter of 4 mm and a length of 11 mm. Primary outcome: (a) assessing implant survival 1 and 3 and 6 months after intervention through physical examination; (b) assessing the location of implant placement before intervention and 6 months later through radiography. Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201705309014N166**

Registration date: **2017-06-05, 1396/03/15**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-06-05, 1396/03/15

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research and Technology, Hamadan University of Medical Sciences

Expected recruitment start date

2017-02-19, 1395/12/01

Expected recruitment end date

2017-09-23, 1396/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of two different heights of implant collar on the marginal bone loss in patients who are candidate for immediate implantation: a randomized clinical trial

Public title

Comparison the effect of two different heights of implant collar on the marginal bone loss in patients who are candidate for immediate implantation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age of 18 to 65 years; indications for immediate implant placement, bone quality D2; presence of every 4 walls of the alveolar bone, presence of at least 4 mm bone beyond the apex of the root, a at least 3 mm attached gingiva width. Exclusion criteria: Systemic disease; coagulopathy disorders; acute infection around alveolar bone; heavy smoker; using alcohol or opioid; bruxism; presence of dehiscence and fenestration in the remaining bone walls.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences, Shahid
Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2017-01-28, 1395/11/09

Ethics committee reference number

IR.UMSHA.REC.1395.485

Health conditions studied**1****Description of health condition studied**

Immediate implantation

ICD-10 code

Z96.9

ICD-10 code description

Presence of functional implant, unspecified

Primary outcomes**1****Description**

assessing implant survival

Timepoint

1 and 3 and 6 months after intervention

Method of measurement

through physical examination

2**Description**

assessing the location of implant placement

Timepoint

before intervention and 6 months later

Method of measurement

through radiography

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group 1: Placement of implants collar with a diameter of 4 mm and a length of 12 mm.

Category

Treatment - Devices

2**Description**

Intervention group 2: Placement of implants collar with a diameter of 4 mm and a length of 11 mm.

Category

Treatment - Devices

Recruitment centers**1****Recruitment center**

Name of recruitment center

School of Dentistry

Full name of responsible person

Dr Masoomeh Khoshhal

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Full name of responsible person

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Periodontist

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Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

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Full name of responsible person

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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 and Technology, Hamadan University of Medical 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**

School of Dentistry

Full name of responsible person

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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