

# 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

###### Country

Iran (Islamic Republic of)

###### Phone

+98 81 1838 0090

###### Email address

poorolajal@umsha.ac.ir

##### 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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School of Dentistry, Hamadan University of Medical Sciences, Shahid Fahmideh Ave.

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**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

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**Full name of responsible person**

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**Position**

Periodontist

**Other areas of specialty/work****Street address**

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

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

**Full name of responsible person**

Dr Saeid Bashirian

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Hamadan University of Medical Sciences, Shahid Fahmideh Ave

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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**

Dr Masoomeh Khoshhal

**Position**

Periodontist

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**Postal code****Phone****Person responsible for updating data****Contact****Name of organization / entity**

Department of Epidemiology

**Full name of responsible person**

Dr Jalal Poorolajal

**Position**

Associate 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*