

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Comparison of the success rate of immediate versus delayed implant placement in patients who need implant: a randomized clinical trial

Protocol summary

2018-02-19, 1396/11/30

Study aim

To compare the success rate of immediate versus delayed implant placement in patients who need implant

Design

This is a randomized clinical trial, phase II, in which 50 eligible patients will be randomly assigned to the intervention (immediate implant placement) and control (delayed implant placement) groups

Settings and conduct

The eligible patients who need implant and will refer to School of Dentistry during the study period will be enrolled in the trial

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age of 18 to 65 years Need implant

Exclusion criteria: Tooth and gum infection

Intervention groups

Intervention group: Immediate implant placement immediately after tooth extraction without using bone marrow material Control group: Delayed implant placement one month after tooth extraction without using bone marrow material

Main outcome variables

Primary outcome: Assessing clinical success of implant one year after surgery through clinical examination and radiography

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120215009014N207**

Registration date: **2018-02-19, 1396/11/30**

Registration timing: **retrospective**

Last update: **2018-02-19, 1396/11/30**

Update count: **0**

Registration date

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2016-12-30, 1395/10/10

Expected recruitment end date

2017-12-31, 1396/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the success rate of immediate versus delayed implant placement in patients who need implant: a randomized clinical trial

Public title

Comparison of the success rate of immediate versus delayed implant placement in patients who need implant

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age of 18 to 65 years Need implant

Exclusion criteria:

Tooth and gum infection

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

Random assignment of the patients to the intervention and control groups through drawing of lots

Blinding (investigator's opinion)

Not 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 Hamadan University of Medical Sciences

Street address

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

City

Hamadan

Province

Hamadan

Postal code

6517838695

Approval date

2016-12-24, 1395/10/04

Ethics committee reference number

IR.UMSHA.REC.1395.427

Health conditions studied

1

Description of health condition studied

The failure or success of implant placement

ICD-10 code

M27.6

ICD-10 code description

Endosseous dental implant failure

Primary outcomes

1

Description

Assessing clinical success of implant

Timepoint

One year after surgery

Method of measurement

Through clinical examination and radiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Immediate implant placement immediately after tooth extraction without using bone marrow material

Category

Treatment - Surgery

2

Description

Control group: Delayed implant placement one month after tooth extraction without using bone marrow material

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Dentistry

Full name of responsible person

Koorosh Tamizi

Street address

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

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Dr Saeid Bashirian

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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

Hamedan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact**Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Koorosh Tamizi

Position

Dental Student

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact**Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Dr. Parviz Torkzaban

Position

Periodontist

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for updating data

Contact**Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Dr Jalal Poorolajal

Position

Professor of Epidemiology

Latest degree

Ph.D.

Other areas of specialty/work

Epidemiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available