Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

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

Protocol summary

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
2018-02-19, 1396/11/30

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

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.

City

Hamadan

Province

Hamadan

Postal code

6517838695

Phone

+98 81 3838 0572

Email

offecpring_k@yahoo.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Dr Saeid Bashirian
Street address
Hamadan University of Medical Sciences, Shahid Fahmideh Ave
City
Hamadan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0717
Email
info.research@umsha.ac.ir
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
Street address
School of Dentistry, Hamadan University of Medical Sciences, Shahid Fahmideh Ave.
City
Hamadan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0572
Email
offecpring_k@yahoo.com

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
Street address
School of Dentistry, Hamadan University of Medical Sciences, Shahid Fahmideh Ave.
City
Hamadan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0572
Email
torkzaban_m@yahoo.com

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
Street address
School of Public Health, Hamadan University of Medical Sciences, Shahid Fahmideh Ave
City
Hamadan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0090
Email
poorolajal@umsha.ac.ir

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